JVC



R-K22/R-K22L

DIGITAL SYNTHESIZER
STEREO RECEIVER



# **Safety Precaution**

- The design of this product contains special hardware, many circuits and components specially for safety purposes.
  - For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by shading on the schematics and by ( \( \Delta \)) on the parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list in Service manual may create shock, fire, or other hazards.
- 4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and/or the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard.

When service is required, the original lead routing and dress should be observed, and they should be confirmed to be returned to normal, after re-assembling.

 Leakage current check (Safety for electrical shock hazard)
 After re-assembling the product, always perform an isolation check on the exposed metal parts of the Products (antenna terminals, knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

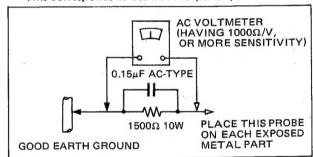
Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet.
   Using a "Leakage Current Tester", measure the
   leakage current from each exposed metal part of the
   cabinet, particularly any exposed metal part having a
   return path to the chassis, to a known good earth
   ground (water pipe, etc.). Any leakage current must
   not exceed 0.5 mA AC (r.m.s.).
- Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1500  $\Omega$  10 W resistor paralleled by a 0.15  $\mu$ F AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.).

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



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## 1. Specifications

#### **AMPLIFIER SECTION**

78 IHF

DIN

**RMS Power** 

: 30 watts per channel, min. RMS, both channels driven, into 8 ohms from 20 Hz to 20 kHz, with no more than 0.03 % total harmonic distortion.

35 watts per channel, min. RMS, both channels driven, into 8 ohms from 40 Hz to 20 kHz. with no more than 0.5 % total harmonic distortion.

33 watts per channel, min, RMS, both channels driven, into 8 ohms at 1 kHz with no more than 0.008 % total harmonic distortion.

35 watts per channel, min. RMS, both channels driven into 8 ohms at 1 kHz with no more than 0.7 % total harmonic distortion.

Total Harmonic

: 0.008 % at 33 watts (1 kHz, 8 ohms)

Distortion

Intermodulation

0.03 % at 30 watts

Distortion

Damping Factor : 45 at 8 ohms, 1 kHz

Input Sensitivity/Impedance

**PHONO** TAPE PLAY

2.5 mV/47 kohms 150 mV/50 kohms

AUX/VIDEO TAPE PLAY

150 mV/50 kohms

(DIN)

Recording Output: Level

150 mV

(DIN)

Frequency Response PHONE

30 mV/80 kohms 20 Hz - 20 kHz. +0.5 dB, -0.5 dB

(RIAA Equalization)

15 Hz — 40 kHz, +1 dB, -1 dB TAPE PLAY/ VIDEO/AUX

S.E.A. Graphic Equalizer

Center

63 Hz, 250 Hz, 1 kHz, 4 kHz, 16 kHz

frequencies Control range Loudness Control

±12 dB 7 dB at 50 Hz 4 dB at 10 kHz

(Volume control at -40 dB position) Signal to Noise Ratio

PHONO : 71 dB (Short 59 dB

64 dB

circuit 2.5 mV input)

78 dB ('78 IHF) (Rec out)

TAPE PLAY/ VIDEO/AUX

74 dB ('78 IHF)

: 91 dB (Short circuit)

**FM TUNER SECTION** 

78 IHF

DIN

Tuning Range

Usable Sensitivity

: Mono

87.5 MHz-108.0 MHz : 87.5 MHz-108.0 MHz (S/N 26 dB)

10.3 dBf

0.9 µV/75 ohms

1.8 µV/300 ohms

0.8 µV/75 ohms 1.6 µV/300 ohms

50 dB Quieting

S/N 46 dB Stereo

Sensitivity

Signal to Noise

Frequency

Capture Ratio

Sensitivity

Mono 14.8 dBf (3.0 µV/300 ohms)

Stereo 38.3 dBf

(45 µV/300 ohms)

Stereo 23 µV/75 ohms Stereo 46 µV/300 ohms

: Mono 80 dB

Stereo 73 dB (A-net.)

Mono 72 dB Stereo 63 dB (weighted)

Ratio (at 98 MHz, 80 dBf)

Total Harmonic : Mono 0.12 %

Mono 0.10 %

Distortion

1 kHz

Stereo 0.25%

Stereo 0.40 % 30 Hz - 12.5 kHz, +0.5 dB, -3 dB

Response

: 1.5 dB

1.0 dB (10 mV/300

(at 85 dBf 98 MHz)

ohms at 98 MHz) 55 dB, ±300 kHz

Alternate Channel : 60 dB, ±400 kHz Selectivity

Image Response

Ratio

85 dB at 98 MHz

56 dB at 98 MHz

IF Response Ratio :

Stereo Separation : 40 dB at 1 kHz

## AM TUNER SECTION

MW

Tuning Range

Sensitivity

Channel space

: 522 kHz-1611kHz

522 kHz-1611 kHz

9 kHz

Channel space 10 kHz : 520 kHz-1710 kHz : 250  $\mu$ V/m at 1000 kHz 50 μV at 1000 kHz

250 μV/m at 999 kHz 50 μV at 999 kHz

Signal to Noise

: 50 dB at 1000 kHz

50 dB at 999 kHz 45 dB for R-K22L

Ratio (100m V/m) Selectivity

: 40 dB, ±10 kHz

36 dB, ±9 kHz

at 1000 kHz

at 999 kHz

LW (R-K22L only)

Tunign Range Sensitivity

153 kHz - 360 kHz 400 μV/m at 245 kHz 70 μV at 245 kHz 45 dB at 245 kHz

Signal to Noise Ratio (100 mV/m)

Selectivity

40 dB ±9 kHz at 245 kHz

Design and specifications subject to change without notice.

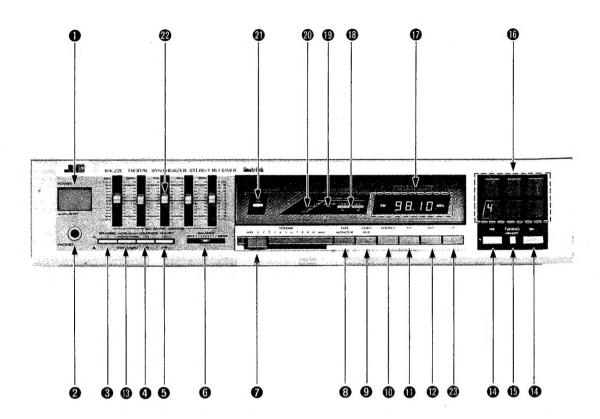
## **Power Specifications**

Areas	Line Voltage & Frequency	Power Consumption
.S.A., Canada	AC 120 V, 60 Hz	125 W, 155 VA
urope	AC 220 V <sup>2</sup> , 50 Hz	260 watts
J.K., Australia	AC 240 V <sup>2</sup> , 50 Hz	260 watts
Other Areas	AC 110/120/220/240 V <sup>2</sup> , Selectable, 50/60 Hz	260 watts

## **Dimensions and Weight**

		Dimensions		Weight
	Height	Width	Depth	Net
9	2 mm (3-5/8")	435 mm (17-1/8")	365 mm (14-3/8")	5.5 kg (12.1 lbs)

## 2. Names of Controls and Their Functions



#### 1 POWER switch

ON (\_\_\_\_): Press to set to this position to turn the power on.

OFF (\_\_\_\_): Press to set to this position to turn the power off. Even when it is in this position, and the power cord is disconnected, preset station data is maintained for one or two weeks.

#### Headphone jack (PHONES)

Plug stereo headphones into this jack for private listeningand to monitor recording. Plugging stereo headphones makes the speaker sound automatically turned off.

## **3** SPEAKERS switch

SYSTEM-1 (\_\_\_\_): Set to this position to listen to speakers connected to the SPEAKER SYSTEM-1 terminals.

SYSTEM-2 (\_\_\_\_): Set to this position to listen to speakers connected to the SPEAKER SYSTEM-2 terminals.

Two pairs of speaker systems cannot be used at the same time.

## **4** LOUDNESS switch

Press to compensate for the ear's different sensitivity to sound at low volume.

## SEA REC switch

Press to record tapes with the added effect of the S.E.A. graphic equalizer.

#### **6** BALANCE control

Use to adjust the balance between the left and right speakers.

## **O** VOLUME control

Slide to the right to increase the sound level.

### **13** TAPE MONITOR switch

Press to listen to the tape deck connected to the TAPE terminals or DIN socket. Release the switch to hear the source selected with the source select switches.

### **9** VIDEO/AUX switch

Press to hear sound from the source connected to the VIDEO/AUX terminals on the rear panel.

## PHONO switch

Press to hear or record sound from the turntable connected to the PHONO terminals on the rear panel.

## FM switch

Press to switch on the FM tuner section.

(2) AM switch (for R-K22): MW switch (for R-K22L)

Press to switch on the AM (MW) tuner section.

## (B MODE/SCAN switch (R-K22 only)

This switch is used to select both FM STEREO/MONO mode and AUTO/MANUAL scanning mode. These functions are related to each other. When stereo reception is possible, set this switch to AUTO/STEREO ( ) for auto tuning.

When signals are too weak to be received by auto tuning, set to MANU/MONO (\_\_\_\_) for manual tuning and the left and right channel FM signals are mixed and heard from both speakers.

## **M**TUNING buttons

Auto tuning

Up-scanning button ( ▶): When this button is pressed and released, the tuned-in frequency changes in the direction of increasing frequencies. Scanning (Auto Tuning) stops automatically when the next FM (or AM) frequency is tuned in. This tuned-in frequency is displayed digitally by the frequency indicator.

When you keep this button depressed, scanning does not stop even if broadcasts are detected. Down-scanning button ( ): Press to tune in the direction of decreasing frequencies. Functions are identical with those of the Up-scanning button.

Note: Scanning starts when the 

or 

button is pressed and is stopped by pressing the MODE/SCAN
switch.

Manual tuning

Manual tuning is possible by pressing the MODE/SCAN switch. Pressing the Up/Down-scanning buttons, the frequency changes in predetermined steps (see table below). Tapping this button changes the tuner step by step; pressing continuously (more than 0.5 sec.) changes tuning in a high speed scanning sequence which stops when the button is released.

Channel spacing

AM channel spacing switch (R-K22 only) is provided on the rear panel for selecting 9 kHz or 10 kHz steps according to your area.

Note: \* Preset at the factory.

Band Area	FM	AM (MW)	AM (LW)
U.S.A., Canada	100 kHz	*10 kHz/9 kHz	-
Continental Europe, U.K., Australia	50 kHz	9 kHz	1 kHz
Other areas	*50 kHz	*9 kHz	_
Other areas	100 kHz	10 kHz	

## **®** MEMORY switch

Press this switch and the memory indicator will light to show that the unit is ready to receive a frequency to be held in memory. (This switch is non-lock type.) Pressing the station select button while the MEMORY indicator is lit (for about 10 sec.) makes it possible to store the frequency being received in memory. When the MEMORY indicator is not lit, the memory function does not operate.

® Station select buttons/station indicators

These buttons are used to select one of the preset stations or to store the station frequency in memory. When one of these buttons is pressed, the number in the button pressed will light to show the preset station.

If one of these buttons is pressed when the MEMORY switch is pressed in, the frequency which is being received will be stored in memory. One of the station select buttons can be used in common for one FM station and one AM station (one MW or LW station for R-K22L).

If you change the mode from radio reception to any other mode including power-off and back to radio reception, the station previously selected with the station select buttons remains tuned in.

Trequency indicator

The tuned-in frequency is displayed digitally. Four digits (kHz) are displayed for AM reception and five digits (MHz) (for Europe, U.K., Australia and other countries) or four digits (MHz) (for U.S.A. and Canada) are displayed for FM reception.

B FM QSC/STEREO indicator When QSC works, this LED lights in orange. When receiving an FM stereo broadcast normally, this LED lights in green.

**MEMORY** indicator

When the MOMORY switch is pressed, this MEMORY indicator lights to show that the unit is ready to store a preset frequency in memory. This indicator will go out automatically in about 10 sec. or when the station select button is pressed.

**@SIGNAL STRENGTH indicator** 

This is used in tuning to both FM and AM (MW/LW) broadcasts. The greater the number of LEDs that light, the stronger the signal being received.

2 POWER indicator

When the POWER switch is pressed to on, this indicator lights.

@S.E.A. graphic equalizer system

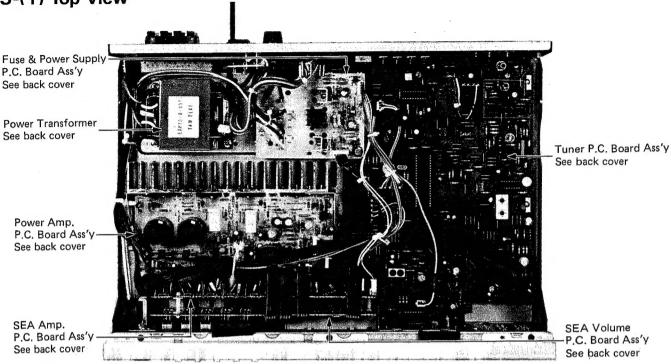
These five controls allow you to individually boost or lower response in five portions of the frequency spectrum by 12 dB. For operation of these controls, which give far more flexible control over tone than the conventional bass/treble controls. Preset patterns will add to your listening pleasure for different types of music.

(B LW switch (R-K22L only)

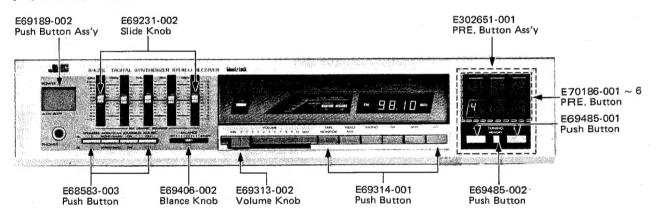
Press to switch on the LW tuner section.

## 3. Main Parts Locations

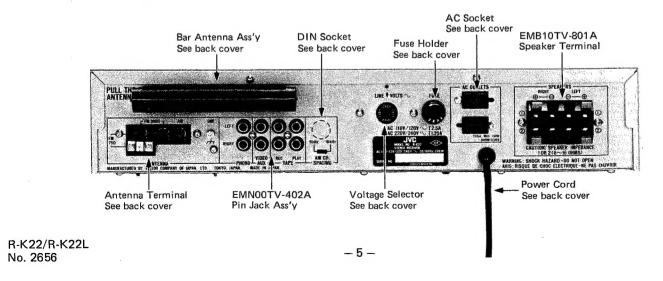
3-(1) Top View



## 3-(2) Front View



## 3-(3) Rear View



# 4. Removal Procedures

# 4-(1) Removal Procedures of Bottom Cover

Step (1)

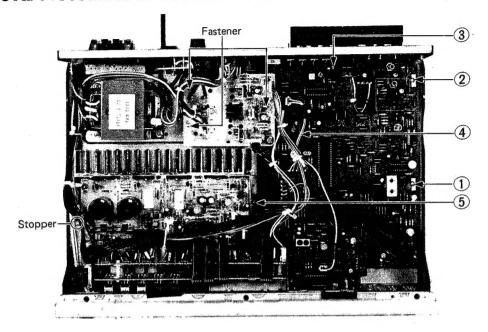


Fig. 4

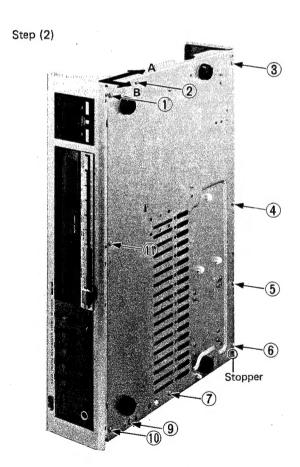


Fig. 5

Step (3)

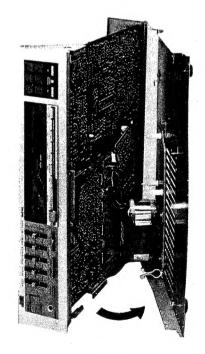
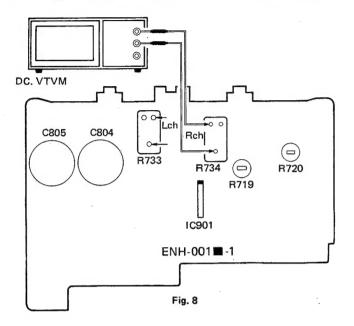


Fig. 6

## Step

- (1) Remove the power supply P.C. board from fastenar.
- (2) Remove screws 1 5 on the **P.C.** board. (Fig. 4)
- (3) Remove screws  $\bar{\widehat{\ \ 1}} \bar{\widehat{\ \ \ 1}}$  on the chassis base. (Fig. 5)
- (4) Remove the chassis base in this manner shown in Fig. 6.

## 5-(2) Power Amplifire Idling Current Adjustment Procedures



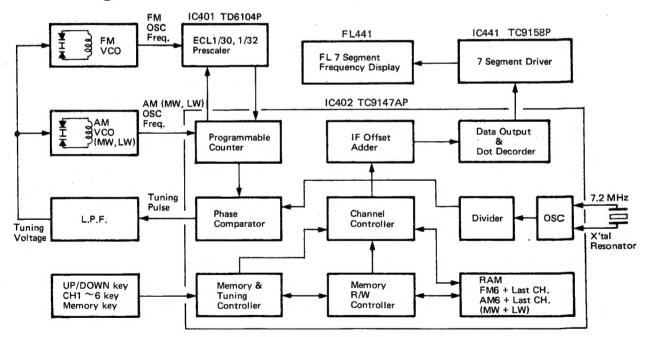
#### Precaution

- 1. Turn R719 and R720 fully counterclockwise before the power switch on.
- Allow the set warm up at least 5 minutes before adjustment.
- 3. Must keep the heatsink to prevent overheating before adjustment.
- 4. Set the volume control to minimum during this adjustment.

### Adjustment

- 5. Connect a DC. VTVM. to R733 resistor's leads for left channel, or to R734's leads for right channel.
- Adjust R719 for left channel, or R720 for right channel, so that the DC. VTVM, reads 5 mV.

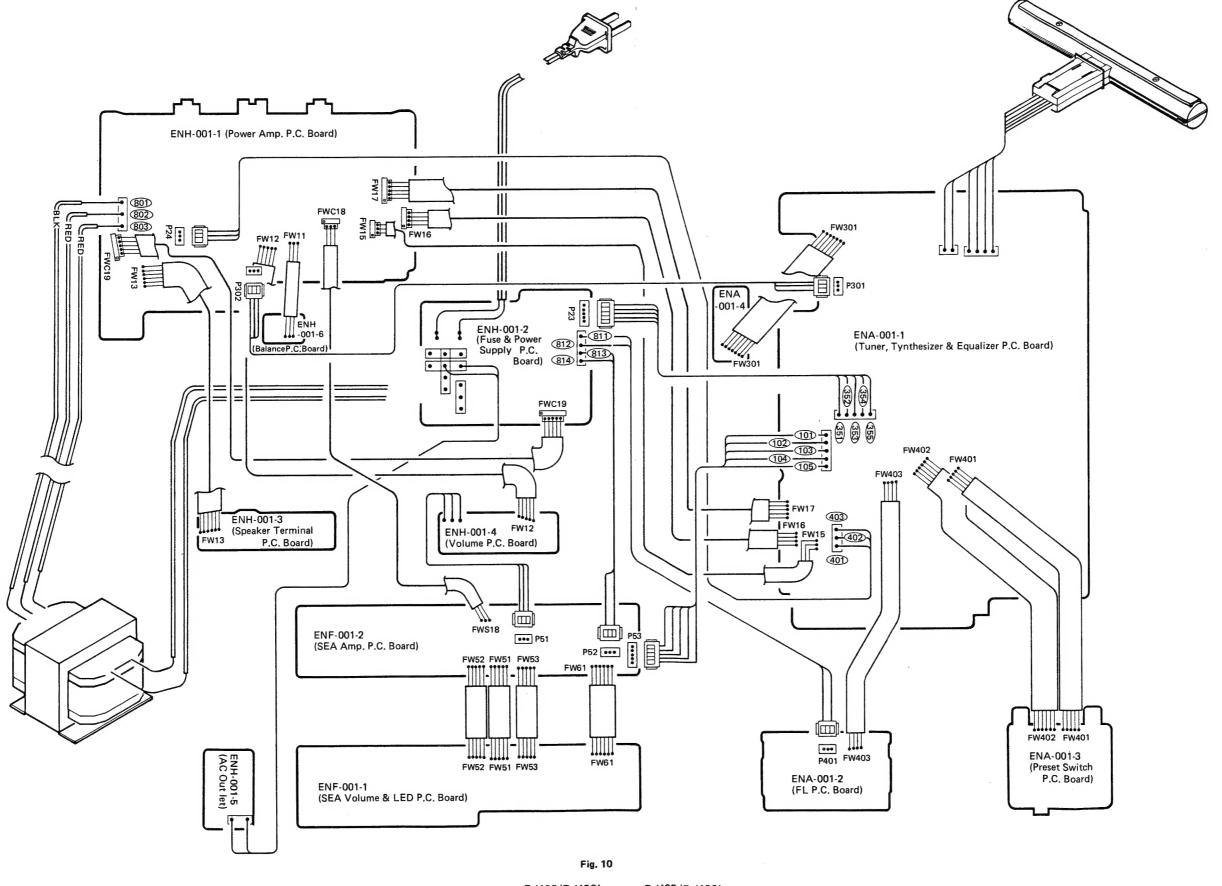
## 6. Block Diagram



Block Diagram of PLL Synthesizer

Fig. 9

# 7. Connection Diagram



R-K22/R-K22L No. 2656 R-K22/R-K22L No. 2656

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# 8. Exploded Views and Part Numbers

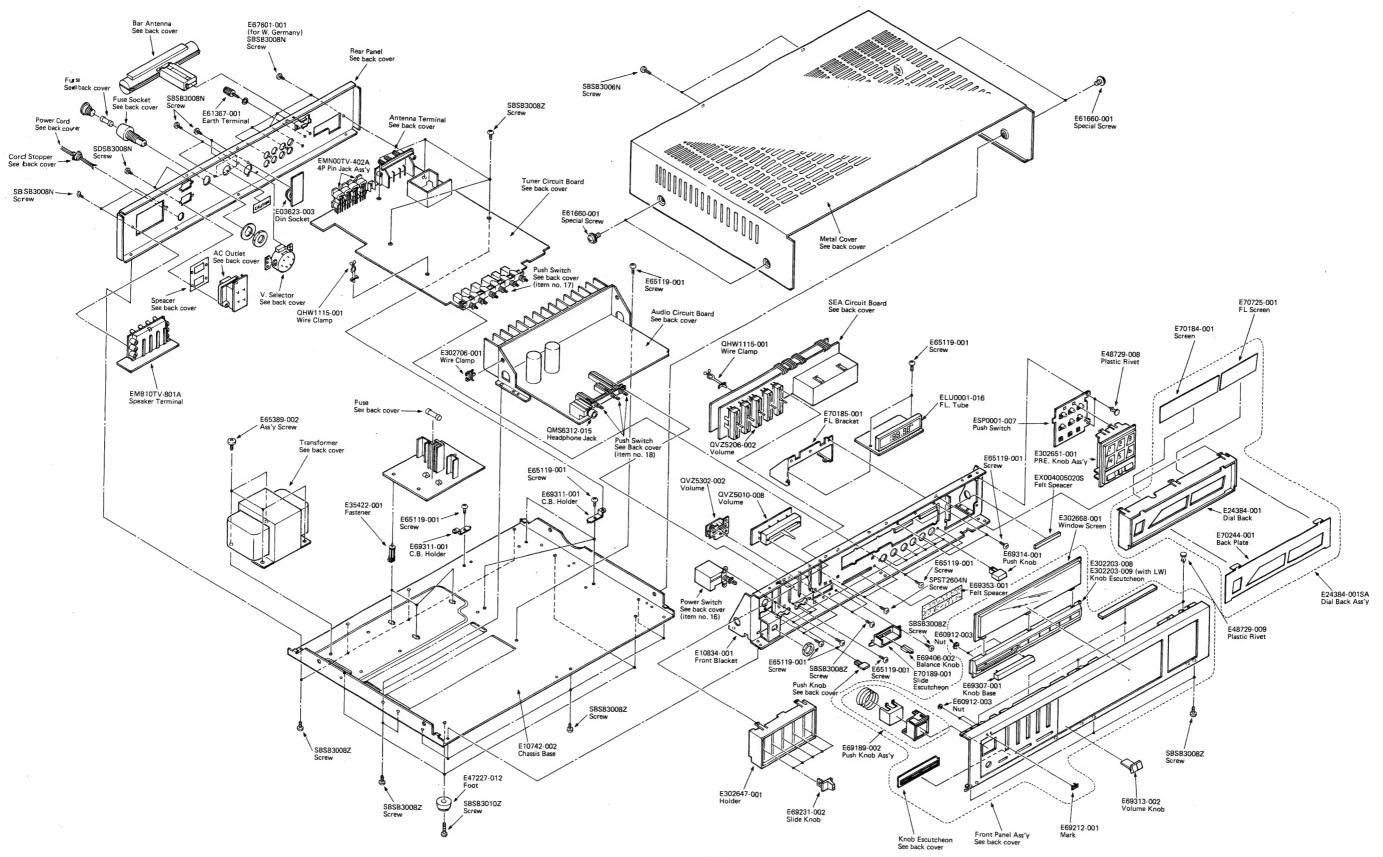
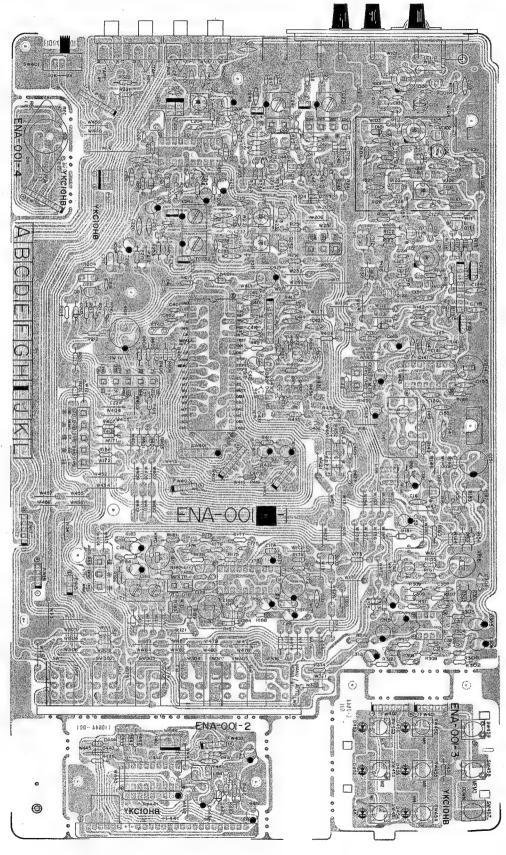


Fig. 11

# 9. Printed Circuit Board Ass'y and Part List

# 9-(1) ENA-001 FM/AM (MW, LW) Tuner, Tynthesizer & Phono Equalizer P.C. Board Ass'y

Note: ENA-001-1 varies according to the areas employed. See note (1)



## Each Individual P.C. Board Location

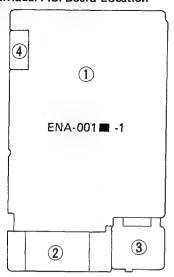


Fig. 13

# ① ENA-001-1 Tuner Tynthesizer & Equalizer P.C. Board Ass'y

② ENA-001-2 FL Board Ass'y

3 ENA-001-3 Preset Switch P.C. Board Ass'y

4 ENA-001-4 DIN Terminal P.C. Board Ass'y

## Note (1)

Designated Areas	P.C. Board Ass'y
U.S.A.	ENA-001A
Canada	ENA-001C
West Germany	ENA-001D
Europe & Australia	ENA-001E
Europe & U.K. (with LW)	ENA-001F
U.S. Military	ENA-001B
Market & Other Countries	LIVA-001B

Note (2) The symbols ( 赤、黒、白 ... etc.) on P.C. Board surface are factory process only.

## Transistors

Item No.	Part Number	Rating	Description	
				Maker
Q101	2SK359(E,F)		F.E.T.	Hitachi
Q102	2SC535(B,C)		Silicon	"
Q111	2SC461 (B,C)		,,,	"
Q121	2SC461(B,C)		"	n
Q122	2SK168(E)		F.E.T.	"
Q123	2SK168(E,F)		"	"
Q151	2SC458(C,D)		Silicon	"
Q161	2SC982		"	Toshiba
Q162	2SC458(C,D)		"	Hitachi
Q211	2SC458(C,D)		"	17
Q241	2SK105(H)		F.E.T.	NEC
			[	(with LW)
0242	2SK105(F,H)	1		"(")
Q251	2SK105(H)		"	(")
Q252	2SK105(H)		"	"(")
Q421	2SK105(1)		**	NEC
Q422	2SC458(D)		Silicon	Hitachi

## Integrated Circuit

Item No.	Part Number	Rating	Description
			Maker
IC111	HA1211		Hitachi
IC141	LA1235		Sanyo
IC171	LA3390		. "
IC201	LA1245		,,
IC301	NJM4558D-D		Dainichi
IC401	TD6104P		Toshiba
IC402	TC9147AP		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
IC441	TC9158P	•	"

#### Diodes

Item No.	m No. Part Number Rating	Des	Description		
				Maker	
D101	1SS108		Silicon	Hitachi	
D201	1SS108		"	"	
D141	1S2473		**	JRC	
D181	182473		"	"	
D202	1S2473		"	"	
D203	1S2473		"		
D221	1S2473		- "		
D241	182222		"	NEC	
		_	-	(with LW	

## Diodes

Item No.	Part Number	Rating	Description	
				Maker
D242	1S2222	1	Silicon	NEC
				(with LW)
D243	1S2473	1	"	JRC( ")
D244	1S2473		"	(")
D401	1S2473		"	"
D402	1S2473		"	"
D441	RD2.7EB2		11	NEC
D442	RD2.7EB2		**	"
D443	1S2473		**	JRC
D444	182473		"	"
D451	SLR-55VC20F		L.E.D.	Rohm
D452	SLR-55VC20F			"
D453	SLR-55VC20F		**	"
D454	SLR-55VC20F		**	"
D455	SLR-55VC20F	i	**	"
D456	SLR-55VC20F		"	"
VC101	SVC202(AB)		Silicon	Sanyo
VC102	SVC202(AB)		**	"
VC121	SVC202(AB)		**	"
VC231	KV1236Z		"	Toko
VC232	KV1236Z		**	"
VC241	KV1236Z		11	**
VC242	KV1236Z		"	"

## Coils & Transformers

Item No.	Part Number	Rating	Description
L101	See page 17		RF Coil
L101	EQR2304-005		**
L102	EQR2304-006		"
L104	EQL3001-1R5KY		Inductor
L121	EQR2404-004		RF Coil
L191	EQF0102-001		Filter (G only)
L201	EQL3001-102KY		Inductor
L231	EQR1207-003		` "
L241	EQL3001-101KY		" (with LW)
L251	EQR1307-002		"(")
L441	EQL3001-102KY		••
CF111	See page 17		Ceramic Filter
CF112	See page 17		**
CF201	ECB1545-001		**
LF171	EQF0101-002		Filter
T111	EQT2121-002		FM 1.F. Transformer
T141	EQT2140-003		I.F. Transformer
T201	EQT1021-001		

_				
Ca	no	~11	2	re

Capacitor	rs				Capacitor					
Item No.	Part Number	Rating		Description	item No.	Part Number	Ratin			scription
C101	ENZ1003-002	l		Trimmer	C214	QCF31HP-103Z	0.01µF	50V	Ceramio	;
C102	QCS31HJ-680Z		50V ·	Ceramic	C215	QET61HM-105Z	1μF	",	Electro	
C103	QCF31HP-103Z	0.01μF	**	"	C216	QET61HM-475Z	4.7μF			
C104	QCF31HP-103Z		,,	,,	C217 C218	QFN31HK-473Z QCY31HK-472Z	0.047µF	,,	Mylar Ceramio	
C105	QCS31HJ-5R0Z	5pF			C218	QET61HM-105Z	4700pF		Electro	
C106	ENZ1003-002			Trimmer	C219	QCF31HP-223Z	0.022µF	,,	Ceramio	•
C107	See page 17	7pF 5	50V	Commis	C220	QFN31HK-473Z	0.022μF 0.047μF	,,	Mylar	•
C108 C109	QCS31HJ-7R0Z QCF31HP-103Z	0.01µF	,,	Ceramic	C222	QET61CM-476Z	47μF	16V	Electro	
C109	QCS31HJ-151Z	150pF	,,	"	C223	QCF31HP-223Z	0.022µF	50V	Ceramio	:
C111	QCF31HP-103Z	0.01µF	**	"	C224	QCF31HP-103Z	0.01µF	"	11	
C112	QCF31HP-103Z	0.01/21	**	"	C231	QCS31HJ-5R0Z	5pF	"	**	
C113	QCF31HP-103Z	"	**	"	C232	QCC31EM-473Z	0.047µF	25V	,,	
C114	QCF31HP-223Z	0.022µF	**	.,	C233	QCT25CH-560Z	56pF	50V	"	
C115	QCF31HP-223Z	"	**	"	C234	QCT25CH-221Z	220pF	"	"	
C116	QCF31HP-103Z	0.01µF	**	"	C235	QCT25CH-221Z	**	"	"	
C121	QCT25UJ-220Z	22pF	**	"	C236	QCT25CH-180Z	18pF	"	"	
C122	QCT25UJ-100Z	10pF	**	"	C241	QCF31HP-223Z	0.022µF	"		with LW)
C123	QCF31HP-103Z	0.01µF	"	"	C242	QCF31HP-223Z	"	"	" (	" )
C124	QCS31HJ-7R0Z	7pF	**		C243	QCF31HP-223Z	"	"	" (	" )
C125	QCT25UJ-5R0Z	5pF	**	"	C244	QCS31HJ-181Z	220pF	. "	(	" )
C126	QCT25UJ-5R0Z	"	"	"	C245	QCS31HJ-471Z	470pF	"	" (	" }
C127	QCS31HJ-2R0Z	2pF	**	"	C246	QCT25CH-470Z	47pF	"	" (	" )
C128	QCS31HJ-4R0Z	4pF	**	".	C247	QCS31HJ-5R0Z	5pF	<i>"</i>	" (	" )
C131	QCF31HP-103Z	0.01µF	"	"	C248	QCC31EM-473Z	0.047µF	25V	- '' (	<del>" }</del>
C141	QCF31HP-223Z	0.022µF	"	"	C249	QCF31HP-223Z	0.022µF	50V	(	"
C142	QCF31HP-223Z	"	"	"	C251	QCT25CH-101Z	100pF	"	,, ,	" (
C143	QCF31HP-223Z		"	"	C252	QCT25CH-101Z QCT25CH-100Z		"	. ,,	
C144 C145	See page 17 See page 17				C253 C254	QCT25CH-100Z	10pF 82pF	,,	"	" 1
		1	-01/	Flooring	C301	QCF31HP-223Z	0.022µF			<u> </u>
C146 C147	QET61 HM-105Z QCF31 HP-223Z	1μF 5 0.022μF	50V	Electro Ceramic	C301	QCF31HP-223Z	υ.υ22με	",	**	
C147	QET61 AM-107Z		16V	Electro	C303	QCF31HP-223Z	**	"	"	
C149	QCF31HP-223Z		50V	Ceramic	C305	QET61HM-475Z	4.7µF	**	Electro	
C150	QCF31HP-223Z	0.02241	,,	"	C306	QET61HM-475Z	"	"	"	
C151	QET51CM-227	220μF 1	16V	Electro	C307	QCY31HK-182Z	1800pF	"	Cerami	3
C152	QCF31HP-223Z		50V	Ceramic	C308	QCY31HK-182Z	"	**	"	
C153	QET61HM-475Z	4.7µF	"	Electro	C309	QFN31HK-682Z	6800pF	"	"	
C154	QCF31HP-223Z	0.022µF	**	Ceramic	C310	QFN31HK-682Z	"	**	"	
C155	QCF31HP-223Z	,,	"	"	C311	QET61HM-105Z	1μF	"	Electro	
C161	QCY31HK-102Z	1000pF	**	**	C312	QET61HM-105Z	"	11	"	
C171	QCF31HP-223Z	0.022µF	"	**	C313	See page 17				
C172	QET51CM-227	220μF 1	16V	Electro	C314	See page 17				
C173	QET61HM-475Z		50V	**	C315	QET61CM-476Z	47μF	16V	Electro	
C174	QFN31HK-683Z	0.068µF	**	Mylar	C316	QET61CM-476Z	"	"		
C175	QCS31HJ-561Z	560pF	**	Ceramic	C321	QCS31HJ-331Z	330pF	50V	Cerami	C
C176	QCS31HJ-561Z	. "	**	"	C322	QCS31HJ-331Z		**	<i>",</i>	
C177	QFN31HK-103Z	0.01µF	"	"	C401	QCS31HJ-100Z	10pF	"	"	
C178	QFN31HK-103Z		"		C402	QCS31HJ-100Z	1μF	**	Electro	
C181	QET61HM-475Z	4.7μF	"	Electro	C404	QET61HM-105Z QET61HM-105Z	1μΓ	"	"	
C182	QET61HM-475Z		"		C405	QCF31HP-103Z	0.01μF	**	Cerami	c
C183 C184	QEN61HM-105Z QFP31HJ-102Z	1μF 1000pF	,,	Non Pole	C406 C407	QCF31HP-103Z	υ.υ ιμε	.,	Ceraiiii	-
C184	QEB61EM-335Z		25V	Poly L.L.C.E.	C407	EEZ0501-229			Electro	
C186	QEB61EM-225Z		25 V	" .	C409	QCF31HP-103Z	0.01µF	50 <b>∨</b>	Cerami	
C187	QFN31HK-473Z	a.apri	50V	Mylar	C411	QCF31HP-103Z	"	"	. 11	
C191	QET61EM-106Z	,	25V	Electro (G only)	C412	QCF31HP-103Z	**	**	"	
C201	See page 17			,	C413	QCS31HJ-221Z	220pF	**	"	
C202	QCY31HK-102Z	1000pF 5	50V	Ceramic	C414	QCF31HP-103Z	0.01µF	**	"	
C203	QCC21EM-223		25V	11.	C415	QET50JM-477	470µF	6.3 V	Electro	
C204	QCF31HP-223Z	" E	50V	"	C421	See page 17				
C205	QET61CM-226Z	22μF 1	16V	Electro	C422	See page 17				
C206	QCF31HP-223Z		50V	Ceramic	C441	QCY31HK-472Z	4700pF	50V	Cerami	
C207	QCS31HJ-560Z	56pF	"	"	C442	QET61AM-476Z	4.7μF		Electro	)
C208	QCS31HJ-121Z	120pF	**	**	C443	QET50JM-477	".	"	,,	
C209		1000pF	"	"	C445	QET61EM-106Z	10μF	25 <b>V</b>	1	
	QCY31HK-102Z		'							
C210	QCF31HP-223Z	0.022μF	"	"	TC231	QAT2001-005			Trimm	G1
C210 C211	OCF31HP-223Z OFN31HK-103Z	0.022μF 0.01μF	"	Mylar	TC232	QAT2001-005			" "	
C210	QCF31HP-223Z	0.022μF 0.01μF		1 .					"	(with LW)

Resistors						Resistors						
Item No.	Part Number	Ratii			cription	Item No.	Part Number	Ratir			escripti	on
R101	QRD141J-105S	1ΜΩ	¼W	Carbon	1	R205	QRD141J-103S	10kΩ	1/4W	Carbon	1	
R102	QRD141J-470S	47Ω	"	",	1	R206	QRD141J-103S	"	"	"		
R103	QRD141J-473S	47kΩ	"	",		R207	QRD141J-103S		"	,,		
R104	ORD141J-221S	220Ω	,,	",		R208	QRD141J-123S	12kΩ	"	,,,		
R105	QRD141J-473S	47kΩ		"		R209	QRD141J-332S	3.3kΩ				
R106	QRD141J-332S	3.3kΩ	"			R210	QRD141J-393S	39kΩ 6.8kΩ	"	,,		
R107	See page 17	4	"	,,		R211	QRD141J-682S	0.8844				
R108	QRD141J-102S	1kΩ	"	"	ŀ	R212 R213	See page 17 See page 17					
R110	See page 17	820Ω	"	"		R214	QRD141J-123S	12kΩ	14W	Carbor	,	
R111	QRD141J-224S	220kΩ	"	"		R215	See page 17	12100	7444	- Car - Car		
R112	QRD141J-332\$ QRD141J-271\$	3.3kΩ 270Ω	,,	"		R221	QRD141J-393S	39kΩ	1/4W	Carbor	)	
R113 R114	QRD141J-391S	390Ω	**	"		R231	QRD141J-103\$	10kΩ	"	"		
R115	QRD141J-331S	330Ω	**	"		R232	QRD141J-104\$	100kΩ	"	"		
R116	See page 17				-	R241	QRD141J-473\$	47kΩ	"	"	(with I	LW)
R117	See page 17					R242	QRD141J-473S	22kΩ	"	**	( "	)
R121	QRD141J-102S	1kΩ	1/4W	Carbon		R243	QRD141J-473S	47kΩ	"	"	( "	)
R122	QRD141J-103S	10kΩ	**	**		R244	QRD141J-105S	1ΜΩ	"	"	( "	)
R123	QRD141J-682S	6.8kΩ		"	Į	R245	QRD141J-331S	330Ω	"	"	( "	)
R124	QRD141J-222S	2.2kΩ	**	"		R246	QRD141J-563S	56kΩ	"	"	( "	)
R125	QRD141J-105S	1ΜΩ	"	"		R247	QRD141J-103S	10kΩ	**	"	( "	)
R126	QRD141J-392S	3.9kΩ	**	"		R251	QRD141J-223S	22kΩ	"	"	( "	)
R127	QRD141J-331S	330Ω	"	. "		R252	QRD141J-223S	"	**	"	( "	)
R128	QRD141J-105S	$1M\Omega$	"	"		R253	QRD141J-104S	100kΩ	**	"	( "	)
R129	QRD141J-391S	3 <b>90</b> Ω	"	"		R301	QRD141J-563S	56kΩ	"	"		
R130	See page 17					R302	QRD141J-563S	"	**	,,,		
R131	QRD141J-222S	$2.2k\Omega$	1/4W	Carbon		R303	ORD141J-222S	2.2kΩ	**	"		
R141	QRD141J-331S	$330\Omega$	"	"	1	R304	ORD141J-222S		"	,,		
R142	QRD141J-103S	10kΩ	"	",		R305	QRD141J-821S	820Ω	**	,,		
R143	QRD141J-332S	3,3kΩ	"	"		R306	QRD141J-821S	2010	***			
R144	QRD141J-561S	560Ω	.,	"		R307	QRD141J-393S QRD141J-393S	39kΩ	**	,,,		
R145	See page 17	471.0	1/18/	Combon		R308 R309	QRD141J-474S	470kΩ	"	"		
R146	QRD141J-473S	47kΩ	¼W	Carbon		R310	QRD141J-474S	1701/20		"		
R147 R148	See page 17 QRD141J-102S	1kΩ	¼W	Carbon	1.	R311	QRD141J-101S	100Ω	**	"		
R151	QRD141J-1028	47kΩ	11	Carbon "		R312	QRD141J-101S	"	"	**		
R152	QRD141J-473S	4/22	**			R313	QRD141J-104S	100kΩ	**	"		
R153	QRD141J-103S	10kΩ	**	**		R314	QRD141J-104S	"	**	"		
R154	QRD141J-472S	4.7kΩ	**	" -		R315	See page 17					
R155	QRD141J-473S	47kΩ	"	"		R316	See page 17					
R156	QRD141J-223S	22kΩ	1.9	"	, · · · · ·	R321	See page 17	120kΩ	¼W	Carbo	n	
R161	QRD141J-103S	10kΩ	**	"		R322	See page 17	""	**	"		
R162	QRD141J-681S	680Ω	**	"		R325	QRD141J-222S	2.2kΩ	**	"		
R163	QRD141J-473S	47kΩ	**	"		R331	QRD141J-332S	3.3kΩ	"	,,		
R164	QRD141J-393S	39kΩ	"	"		R332	QRD141J-332S					
R170	See page 17					R401	QRD141J-103S	10kΩ	"	,,		
R171	See page 17	455	*****			R402	QRD141J-103S	",	"	,,		
R172	QRD141J-474S	470kΩ	: 1/4W	Carbon		R403	QRD141J-103S		"	"		
R173	QRD141J-184S	180kΩ	,,	"	1	R404	QRD141J-472S QRD141J-472S	4.7kΩ	"	,,,		
R174	QRD141J-273S	27kΩ	"	- "		R405		"	"			
R175	QRD141J-474S	270kΩ	.,,	"		R406 R407	QRD141J-472S QRD141J-103S	10kΩ	"	,,		
R176	QRD141J-474S		,,	,,		R407	QRD141J-103S	10822	**	"		
R177	QRD141J-913S QRD141J-913S	91kΩ	**	"		R409	QRD141J-103	4.7kΩ	**	"		
R179	QRD148J-100S	10Ω	"	**		R410	QRD141J-472S	11	**	"		
R180	QRD148J-100S	1032	"	"		R411	QRD141J-683S	68kΩ	**	***		
R181	QRD148J-100S	1κΩ	,,	"		R412	QRD141J-683S	"	**	"		
R182	QRD141J-102S	I K32	**	**		R413	QRD141J-823S	82kΩ	**	"		
R183	QRD141J-222S	2.2kΩ	"	"		R414	QRD141J-222S	2.2kΩ	**	"		
R184	QRD141J-222S	"	"	"		R415	ORD141J-224S	220kΩ	**	"		
R185	QRD141J-682S	6.8kΩ	**	"		R421	QRD141J-102S	1kΩ	"	77		
R186	QRD141J-682S	"		"		R422	QRD141J-222S	$2.2$ k $\Omega$	"	"		
R187	QRD141J-123S	12kΩ	**	"		R423	QRD141J-271S	270Ω	"	"		
R188	QRD141J-102S	1kΩ	"	"		R424	QRD141J-103S	10kΩ	"	,,,		
R189	QRD141J-153S	15kΩ	**	"		R425	See page 17					
R191	QRD141J-103S	10kΩ	**		(G only)	R426	QRD141J-472S	4.7kΩ	1/4W	Carbo	n	
R201	QRD141J-271S	270Ω		"	· [	R427	QRD141J-102S	1kΩ	"			
R202	QRD141J-152S	1.5kΩ	.,	"	1	R441	QRD141J-223S	22kΩ	,,	,		
R203	QRD141J-221S	$220\Omega$	"	"		R442 R443	QRD141J-104S QRD141J-104S	100kΩ	,,	"		
R204	QRD141J-221S	**										

Resistors

	Item No.	Part Number	Ratir	ng	Description	_
	R444	QRD141J-104S	100kΩ	¼W	Carbon	_
	R445	QRD141J-104S	"	**	" .	
	R446	QRG022J-331A	330Ω	2W	O.M. Film	
	R447	QRD141J-222S	2.2kΩ	1/4W	Carbon	
	R451	QRD141J-121S	120Ω	**	"	
	RA441	ERGS8XK-104			Resistor Array	
	VR141	QVP4A0B-473	47kΩ		Variable	
	VR161	QVP4A0B-223	22kΩ		**	ĺ
	VR181	See below	47kΩ		"	
	VR182	QVP4A0B-103	10kΩ		"	
1		1				

Other

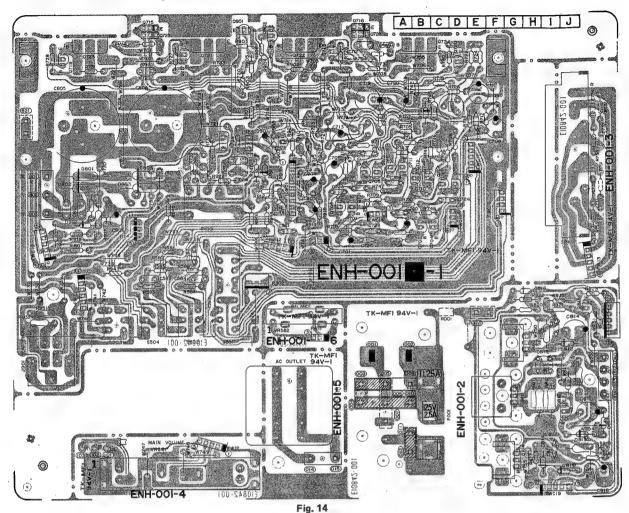
Item No.	Part Number	Rating	Description
	See back cover	Item 17	Push Switch
	EMN00TV-402A		Pin Jack Ass'y
	See back cover	Item 19	Din Socket
	See back cover	Item 11	Antenna Terminal
	E67764-002		Terminal Ass'y
	E67764-003		Terminal
	E67764-004		Wrapping Terminal
	E67764-005		Terminal Ass'y
	E10844-001		Circuit Board
	E70271-001		Shield Case
	E65396-001		Earth Plate
	E70225-001		"
P401	QMV5005-003	·	3P Plug Ass'y
SW401	QSS1201-039		Slide Switch
SW451	ESP0001-007		Push Switch
SW452	ESP0001-007		"
SW453	ESP0001-007		"
SW454	ESP0001-007		11
	ESP0001-007		"
SW456	ESP0001-007		"
SW457	ESP0001-007		"
SW458	ESP0001-007		"
	ESP0001-007		"
XT401	ECX0007-200KC		Resonator
FL441	ELU0001-016		FL Tube

Specified Numbers in ENA-001 for Designated Areas

Item No.	Description	U.S.A. & Canada	Europe & Australia	West Germany	Europe (with LW)	U.K. (with LW)	U.S. Military Market & Other Countries
L101	RF Coil	EQR2304-005	EQR2304-005	EQR2304-004	EQR2304-005	EQR2304-005	EQR2304-005
CF111	Filter	ECB2128-001R	ECB2118-002R	ECB2118-002R	ECB2118-002R	ECB2118-002R	ECB2128-001R
CF112	11 -	ECB2123-002R	ECB2118-002R	ECB2118-002R	ECB2118-002R	ECB2118-002R	ECB2123-002R
C107	Capacitor	QCS31HJ-4R0	QCS31HJ-4R0	QCS31HJ-2R0	QCS31HJ-4R0	QCS31HJ-4R0	QCS31HJ-4R0
C144	"	QCS31HJ-331Z	QCS31HJ-151Z	QCS31HJ-470Z	QCS31HJ-151Z	QCS31HJ-151Z	QCS31HJ-331Z
C145	"	QET61HJ-475Z	QET61HM-475Z	QET61EM-106Z	QET61HM-475Z	QET61HM-475Z	QET61HM-475Z
C201	"	QCF31HP-223Z	QCF31HP-223Z	QCF31HP-223Z	_		QCF31HP-223Z
2313,314	"	QCS31HJ-560Z	QCS31HJ-560Z	QCS31HJ-331Z	QCS31HJ-560Z	QCS31HJ-560Z	QCS31HJ-560Z
C421	"	QEN61HM-225	QEN61HM-225	QEN61HM-225	QEN61HM-474Z	QEN61HM-474Z	QEN61HM-225
0422	"	QCS31HJ-101Z	QCS31HJ-101Z	QCS31HJ-101Z	QCY31HK-821Z	QCY31HK-821Z	QCS31 HJ-101Z
₹107	Resistor	QRD141J-223\$	QRD141J-223S	QRD141J-273S	QRD141J-223S	QRD141J-223S	QRD141J-223S
R110	"	QRD141J-821S	QRD141J-681S	QRD141J-681S	QRD141J-681S	QRD141J-681S	QRD141J-821S
R116	"	QRD145J-330\$	QRZ0062-330	QRZ0062-330	QRZ0062-330	QRZ0062-330	QRD145J-330S
R117	"	QRD145J-680S	QRZ0062-680	QRZ0062-680	QRZ0062-680	QRZ0062-680	QRD145J-680S
3130	"	QRD145J-680S	QRZ0062-680	QRZ0062-680	QRZ0062-680	QRZ0062-680	QRD145J-680S
R145		QRD141J-153S	QRD141J-183S	QRD141J-183S	QRD141J-183S	QRD141J-183S	QRD141J-183S
R147	"	QRD145J-680S	QRZ0062-680	QRZ0062-680	QRZ0062-680	QRZ0062-680	QRD145J-680S
R170	"	QRD141J-183S	_			_	QRD141J-183S
R171	"	QRD145J-680\$	QRZ0062-680	QRZ0062-680	QRZ0062-680	QRZ0062-680	QRD145J-680S
R212	"	QRD141J-183S	QRD141J-183S	QRD141J-183S	QRD141J-153S	QRD141J-153S	QRD141J-183S
3213	"	QRD141J-682S	QRD141J-682S	QRD141J-682S	QRD141J-392S	QRD141J-392S	QRD141J-682S
R215	"	QRD145J-680S	QRZ0062-680	QRZ0062-680	QRZ0062-680	QRZ0062-680	QRD145J-680S
R315,316	"	QRD145J-680S	QRZ0062-680	QRZ0062-680	QRZ0062-680	QRZ0062-680	QRD145J-680S
R321,322	**		QRD141J-124S	QRD141J-124S	QRD141J-124S	QRD141J-124S	_
R425	"	QRD141J-152S	QRD141J-152S	QRD141J-152S	QRD141J-152S	QRD141J-152S	QRD141J-682S
VR181	Variable	_	QVP4A0B-473	QVP4A0B-473	QVP4A0B-473	QVP4A0B-473	
	Resistor					471-17105-170	
	Antenna	E03572-016	E03572-016	EMB91YV-201A	E03572-016	E03572-016	E03572-016
	Terminal					2007.2 010	
	DIN Socket	_	E03623-003	E03623-003	E03623-003	E03623-003	_
	Push Switch	QST1651-E04	QST1651-E04	QST1651-E04	QST1651-E03	QST1651-E03	QST1651-E04

## 9-(2) ENH-001 Audio P.C. Board Ass'y

Note: ENH-001-1 varies according to the areas employed. See note (1)



Each Individual P.C. Board Location

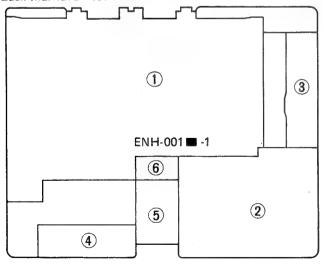


Fig. 15

- Power Amp. P.C. Board Ass'y ① ENH-001-1
- Fuse & Power Supply P.C. Board Ass'y (2) ENH-001-2
- Speaker Terminal P.C. Board Ass'y ③ ENH-001-3
- (4) ENH-001-4 Main Volume P.C. Board Ass'y
- ⑤ ENH-001-5 AC Outlet P.C. Board Ass'y
- ⑥ ENH-001-6 Balance P.C. Board Ass'y

## Note (1)

NOTE (1)	
Designated Areas	P.C. Board Ass'y
U.S.A.	ENH-001A
Canada	ENH-001B
Europe & Australia	ENH-001D
Europe (with LW)	ENH-001E
U.K. (with LW)	ENH-001FBS
West Germany	ENH-001G
U.S. Military	
Market & Other Countries	ENH-001C

The symbols ( 赤、黒、白 ... etc.) on P.C. Board Note (2) surface are factory process only.

Transistors

Item No.		Rating	Des	cription
				Maker
Q701	2SC1775AV(F)		Silicon	Hitachi
0.702	2SC1775AV(F)		"	**
Q703	2SC1775AV(F)		"	**
0.704	2SC1775AV(F)		."	"
Q705	2SA733A(P,Q)		**	NEC
0706	2SA733A(P,Q)		"	**
Q707	2SA733A(P,Q)		**	"
Q708	2SA733A(P,Q)		"	"
Q711	2SA872AV(E)	•	"	Hitachi
Q712	2SA872AV(E)		"	"
Q713	2SA949(O,Y)		"	Toshiba
Q714	2SA949(O,Y)	}	"	**
Q715	2SD636(Q,R)		"	Matsushita
Q716	2SD636(Q,R)		"	"
Q717	2SC2235(O,Y)		"	Toshiba
Q718	2SC2235(O,Y)		"	"
Q719	2SA965(O,Y)		"	**
Q720	2SA965(O,Y)		"	"
Q721	2SD716LB(O,R)		**	**
Q722	2SD716LB(O,R)		"	"
Q723	2SB686LB(O,R)		"	"
Q724	2SB686LB(O,R)		"	"
Q725	See page 21		"	Matsushita
Q726	See page 21		"	"
Q811	2SD1265A(O,P)		"	"
Q812	2SC945A(P,Q)		"	NEC
Q813	2SD1265A(O,P)		"	Matsushita
Q814	2SB941A(P,Q)		"	"
Q815	2SC458(D)		"	Hitachi
Q901	2SC1775AV(F)		"	"
0902	2SC1775AV(F)		"	"
Q903	2SA733A(P,Q)			NEC

## Integrated Circuit

Item No.	Part Number	Rating	Description
			Maker
IC901	TA7317P		Toshiba

## Diodes

Item No.	Part Number	Rating	Des	cription
				Maker
D701	RD13EB3		Silicon	NEC
D801	S3V20F		"	Shindengen
D802	S3V20F		**	"
D803	S3V20F	ì	"	"
D804	S3V20F		**	**
D811	RD15EB3		"	NEC
D812	RD6,2EB3	1	"	"
D813	See page 21		"	Rohm
D814	RD13EB3		" .	NEC
D816	RD13EB3		"	**
D901	1\$2473		"	Rohm
D902	1S2473		"	"
D818	RD13EB3		"	NEC

## Coils

Item No.	Part Number	Rating	Description
L701	Y00087-002		Coil
L702	Y00087-002		"

Capacitors

Capacito				Donnintian	
Item No.		Ratin		Description	_
C581	QCS31HJ-181Z	180pF	50V	Ceramic	
C582	QCS31HJ-181Z				
C583	QFN31HK-183Z	0.018µF	**	Mylar	
C584	QFN31HK-183Z	t "	"		
C701	QET61HM-225Z	2.2μF	"	Electro	
C702	QET61HM-225Z	"	"		
C705	QCS31HJ-150Z	15pF	"	Ceramic	
C706	QCS31HJ-150Z	"	**	"	
C707	QET61AM-107Z	100µF	10V	Electro	
C708	QET61AM-107Z	"	"		_
C709	QCS31HJ-390Z	39pF	50V	Ceramic	
C710	QCS31HJ-390Z	"	"	"	
C711	QFN31HK-103Z	0.01µF	**	Mylar	
C712	QFN31HK-103Z	"	**	"	
C713	QET61HM-226Z	22μF	"	Electro	_
C714	QET61HM-226Z	"	**	"	
C715	QFN31HK-473Z	0.047µF	"	Mylar	
C716	QFN31HK-473Z	"	**	"	
C717	See page 21	"	**	"	
C718	See page 21	"	**	"	_
C719	QET51HM-107	100µF	11	Electro	
C720	QET51HM-107	**	**	"	
C723	QCS31HJ-390Z	39pF	"	Ceramic	
C724	QCS31HJ-390Z	"	**	"	
C727	QC\$31HJ-680Z	68pF	**	"	
C728	QCS31HJ-680Z	"	**	"	
C731	QFN31HK-103Z	0.01µF	**	Mylar (G only)	
C732	QFN31HK-103Z	**	**	" ( " )	
C733	QFN31HK-103Z	**	**	" ( " )	
C734	QFN31HK-103Z	"	"	" ( " )	
C739	QCY31HK-102Z	1000pF	"	Ceramic	
C740	QCY31HK-102Z	"	"	"	
C801	QFM82AM-473Z	0.01µF	100V	Mylar	
C802	QFM82AM-473Z	"	"	"	
C804	QEZ0061-478	4700µF		Electro	
C805	QEZ0061-478	11		"	
C811	QET51EM-227	220µF	25V	"	
C812	See page 21				
C813	See page 21				
C814	QET51 HM-476	47µF	50V	Electro	
C815	QCF31HP-103Z	0.01µF	"	Ceramic	-
C816	QET51VM-107	100µF	35V	Electro	
C817	QCF31HP-103Z	0.01µF	50V	Ceramic	
C901	QET61HM-226Z	22μF	"	Electro	
C904	QET61AM-107Z	100µF	10V.	"	
C905	QET61CM-226Z	22µF	16V	"	
C906	QET61HM-105Z	1μF	50V	"	
3000	-1.011111111002	174.			

Resistors

Item No.	Part Number	Ratin	g	Description
R581	QRD141J-564S	560kΩ	1/4W	Carbon
R582	QRD141J-564\$	"	**	**
R583	QRD141J-683S	68kΩ	**	
R584	QRD141J-683S	"	**	"
R585	QRD141J-223S	22kΩ	**	"
R586	QRD141J-223\$	"	**	**
R701	QRD141J-222S	2.2kΩ	**	••
R702	QRD141J-222S	"	**	"
R703	QRD141J-104S	100kΩ	**	"
R704	QRD141J-104S	"	"	,,
R705	QRD145J-101S	100Ω	**	UNF Carbon 🛆
R706	QRD145J-101S	"	"	" A
R707	QRD145J-101\$	"	**	/ " A
R708	QRD145J-101S	"	**	″ ∆
R709	QRD141J-822\$	8.2kΩ	"	Carbon

Resistors
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Item No.   Part Number   Rating   Description	Resistors	Resistors					
R711   QRD141J-2728   2.7kΩ	Item No.	Part Number	Ratin	g	Description		
R711	R710	QRD141J-822S	8.2kΩ	1/4W	Carbon		
R712   QRD141J-272S   " " " "   "   "   "   "   "   "   "	B711	QRD141J-272S	2,7kΩ	**	"		
R713		1	**	**	. "		
R714			47kΩ	**	"		
R715				",	"		
R716   QRD141J-272S   "			0.71.0		"		
R716   GND141J-323S   R718   GND141J-32SS   R718   GND141J-332S   R718   GND141J-332S   R719   QVP4A0B-102   IkΩ   Variable	1		1				
R717       QRD141J-332S       3.3k2       "       "       Variable         R719       QVP4A0B-102       1kΩ       Variable       "	R716	QRD141J-272S					
R718   QRP141J-332S   R719   QVP4A0B-102   TkΩ	R717	QRD141J-332\$	3.3kΩ	"			
R720	R718	QRD141J-332S	**	"	**		
R720	B719	QVP4A0B-102	1kΩ		Variable		
R721   QRD141J-152S   R722   QRD141J-152S   R723   QRD141J-472S   R724   QRD141J-472S   R724   QRD141J-152S   R726   QRD141J-152S   R726   QRD141J-152S   R727   QRD145J-100S   R728   QRD145J-100S   R728   QRD145J-100S   R729   QRD145J-100S   R729   QRD145J-100S   R729   QRD145J-100S   R720   QRD145J-271S   R730   QRD145J-271S   R731   QRD145J-271S   R732   QRD145J-271S   R732   QRD145J-271S   R733   QRD145J-271S   R733   QRD145J-271S   R733   QRD145J-271S   R733   QRD145J-271S   R737   QRD145J-330S   R738   QRD145J-330S   R739   QRD145J-100S   R739   QRD145J-100S   R740   QRD145J-30S   R741   QRD145J-470S   R741   QRD145J-30S   R741   QRD145J-330S   R744   QRD145J-330S   R744   QRD145J-330S   R744   QRD145J-330S   R744   QRD145J-330S   R744   QRD145J-32S   R745   QRD145J-222   R24π   QRD145J-36S   R746   QRD145J-272S   R745   QRD145J-272S   R7		OVP4 AOR-102	**		**		
R722       QRD141J-152S       " " " " " " " " " " " " " " " " " " "			1 540	1/4///	Carbon		
R723   QRD141J-472S   7.5kΩ   7.7cm   7.7cm	1						
R724   QRD141J-472S   "			4 71.0	**	"		
R725       ORD141J-152S       1.5kΩ       "       "         R726       ORD141J-152S       1.5kΩ       "       "       "         R727       ORD1445J-100S       "       "       "       Δ         R729       ORD145J-100S       "       "       Δ         R730       ORD145J-271S       "       "       Δ         R731       ORD145J-271S       "       "       Δ         R732       QRD145J-271S       "       "       Δ         R732       QRD145J-271S       "       "       Δ         R732       QRD145J-271S       "       "       Δ         R733       ERF032K-R22       "       "       "       Δ         R737       QRD145J-330S       33Ω       "       WW       UNF Carbon Δ         R738       QRD145J-100S       "       "       Δ       Δ         R741       QRD145J-100S       "       "       Δ       Δ         R741       QRD145J-470S       "       "       "       Δ         R742       QRD145J-330S       33Ω       "       "       Δ         R745       QRD145J-30S       "       "       Δ </td <td></td> <td></td> <td></td> <td></td> <td></td>							
R726       GRD141J-152S       """       """       """       A       R727       QRD145J-100S       """"       """       A       """       A       R728       QRD145J-100S       """""       """       A       """       A       R730       QRD145J-100S       """""       """       A       A       R731       QRD145J-271S       270Ω       """       A       A       A       R731       QRD145J-271S       """"       A	R724						
R725       CRD1445J-100S       10Ω       " UNF Carbon Δ         R729       QRD145J-100S       " " Δ         R730       QRD145J-100S       " " Δ         R731       QRD145J-271S       270Ω       " Δ         R732       QRD145J-271S       " " Δ         R733       ERF032K-R22       " " Δ         R737       QRD145J-330S       33Ω       ½W       UNF Carbon Δ         R738       QRD145J-330S       " " Δ       Δ         R739       QRD145J-100S       " " Δ       Δ         R740       QRD145J-100S       " " Δ       Δ         R741       QRD145J-470S       " " Δ       Δ         R741       QRD145J-330S       33Ω       " " Δ         R742       QRD145J-330S       33Ω       " " Δ         R742       QRD145J-330S       " " " Δ         R743       QRD145J-330S       33Ω       " " Δ         R744       QRD145J-330S       " " " Δ         R745       QRD125J-222       22kΩ       ½W       " Δ         R751       QR2062-100       10Ω       Fusible (G only) Δ         R752       QR2062-100       " " " " " " " " " "         R801       QRD145J-272 <t< td=""><td>R725</td><td>ORD141J-152S</td><td>1.5kΩ</td><td></td><td></td></t<>	R725	ORD141J-152S	1.5kΩ				
R728       QRD145J-100S       " " A         R729       QRD145J-100S       " " A         R730       QRD145J-100S       " " A         R731       QRD145J-271S       270Ω " A         R732       QRD145J-271S       " " A         R733       ERF032K-R22       0.22Ω       Cemment         R734       ERF032K-R22       " " A         R737       QRD145J-330S       33Ω       ½W       UNF Carbon A         R738       QRD145J-330S       " " A       A         R740       QRD145J-100S       " " A       A         R740       QRD145J-470S       " " A       A         R741       QRD145J-470S       " " A       A         R742       QRD145J-330S       " " A       A         R743       QRD145J-330S       " " A       A         R744       QRD145J-330S       " " A       A         R745       QRD141J-101S       " " A       A         R745       QRD141J-101S       " " A       A         R751       QR2062-100       10Ω       Fusible (Gonly) A         R752       QR2062-100       " " W W       Carbon         R801       QRD145J-282S       2.2Ω       ½W	R726	QRD141J-152S	**	**	"		
R728   QRD145J-100S   "	R727	QRD145J-100S	10Ω	**	UNF Carbon 🛆		
R729			**	**	· A		
R732   ERF032K-R22   R734   ERF032K-R22   R737   CRD145J-330S   R738   QRD145J-330S   R738   QRD145J-100S   T			"	**			
R732   ERF032K-R22   R734   ERF032K-R22   R737   CRD145J-330S   R738   QRD145J-330S   R738   QRD145J-100S   T			**	**	" A		
R732   ERF032K-R22   R734   ERF032K-R22   R737   CRD145J-330S   R738   QRD145J-330S   R738   QRD145J-100S   T					" <del> </del>		
R732   ERF032K-R22   R734   ERF032K-R22   R737   CRD145J-330S   R738   QRD145J-330S   R738   QRD145J-100S   T					" <del> </del>		
R734				**	_ <del></del>		
R737   QRD145J-330S   R738   QRD145J-330S   R739   QRD145J-100S   R740   QRD145J-100S   R740   QRD145J-470S   47Ω   "	R733						
R738	R734	ERF032K-R22	"		"		
R738	R737	QRD145J-330S	33Ω	1/4W			
R739	,	ORD145J-330S	**	**	" A		
R742			100	28	<i>"</i>		
R742	1	L .		**	" \( \overline{\lambda} \)		
R742	1		470	**	·		
R747       QRD141J-101S       100Ω       ½W       Carbon         R748       QRD141J-101S       "       "       "       "         R751       QRZ0062-100       10Ω       Fusible (G only) Å       "       "       ) Å         R752       QRZ0062-100       "       "       "       ) Å       %       "       ) Å         R801       QRZ0062-100       "       "       "       ) Å        %       "       ) Å         R801       QRD145J-2R2S       2.2Ω       ½W       UNF Carbon Å       Å        Å				**			
R747       QRD141J-101S       100Ω       ½W       Carbon         R748       QRD141J-101S       "       "       "       "         R751       QRZ0062-100       10Ω       Fusible (G only) Å       "       "       ) Å         R752       QRZ0062-100       "       "       "       ) Å       %       "       ) Å         R801       QRZ0062-100       "       "       "       ) Å        %       "       ) Å         R801       QRD145J-2R2S       2.2Ω       ½W       UNF Carbon Å       Å        Å			1		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
R747       QRD141J-101S       100Ω       ½W       Carbon         R748       QRD141J-101S       "       "       "       "         R751       QRZ0062-100       10Ω       Fusible (G only) Å       "       "       ) Å         R752       QRZ0062-100       "       "       "       ) Å       %       "       ) Å         R801       QRZ0062-100       "       "       "       ) Å        %       "       ) Å         R801       QRD145J-2R2S       2.2Ω       ½W       UNF Carbon Å       Å        Å	R743				" A		
R747       QRD141J-101S       100Ω       ½W       Carbon         R748       QRD141J-101S       "       "       "       "         R751       QRZ0062-100       10Ω       Fusible (G only) Å       "       "       ) Å         R752       QRZ0062-100       "       "       "       ) Å       %       "       ) Å         R801       QRZ0062-100       "       "       "       ) Å        %       "       ) Å         R801       QRD145J-2R2S       2.2Ω       ½W       UNF Carbon Å       Å        Å	R744	QRD145J-330S	"		" A		
R748       QRD141J-101S       "       .       "       .       "       .       "       .       "       .       .       .       "       .	R745	QRD125J-222	2.2kΩ	1⁄2W			
R748	R747	QRD141J-101S	100Ω	1/4W	Carbon		
R751	B748	ORD141J-101S	**	"	***		
R752   QRZ0062-100   "			100		Fusible (G only) A		
R753					1 i i . A		
R754       QRZ0062-190       " (" ) Δ         R801       QRD145J-2R2S       2.2Ω       ½W         R802       QRD125J-2R2       " ½W       UNF Carbon Δ         R811       QRG022J-820AF       82Ω       2W       O. M. Film         R813       See page 21       " " W       UNF Carbon         R814       QRD125J-182       1.8kΩ       ½W       UNF Carbon         R815       See page 21       4.7kΩ       ½W       UNF Carbon         R817       QRD145J-122S       1.2kΩ       ½W       UNF Carbon         R818       QRG022J-331AF       330Ω       2W       O. M. Film         R819       See page 21       1kΩ       ½W       Carbon         R821       QRD141J-102S       1kΩ       ½W       Carbon         R821       QRD141J-333S       33kΩ       " "       " "         R902       QRD141J-472S       1kΩ       " "       " "         R903       QRD141J-102S       1kΩ       " "       " "         R904       QRD141J-102S       " "       " "       " "         R905       QRD141J-103S       10kΩ       " "       " "         R906       QRD141J-332S       3.3kΩ			,,		1 7		
R801       QRD145J-2R2S       2.2Ω       ¼W       UNF Carbon Δ         R802       QRD125J-2R2       " ½W       O. M. Film         R811       QRG022J-820AF       " " "       Δ         R812       QRG022J-820AF       " " "       " " "         R813       See page 21       " " " "       " " "         R814       QRD125J-182       1.8kΩ       ½W       UNF Carbon         R815       See page 21       4.7kΩ       ½W       UNF Carbon         R816       QRD145J-122S       1.2kΩ       ½W       UNF Carbon         R817       QRD145J-122S       1.2kΩ       ½W       UNF Carbon         R818       QRG022J-331AF       330Ω       2W       O. M. Film         R819       See page 21       1kΩ       ¼W       Carbon         R821       QRD141J-102S       1kΩ       ¼W       Carbon         R822       QRD141J-472S       2.2kΩ       " "         R902       QRD141J-222S       2.2kΩ       " "         R903       QRD141J-102S       1kΩ       " "         R904       QRD141J-103S       10kΩ       " "         R905       QRD141J-103S       10kΩ       " "         R9					1 " ) " (\$		
R802				44111			
R811							
R812   QRG022J-820AF   " " "   "   R813   See page 21   R814   QRD125J-182   1.8kΩ	R802	QRD125J-2R2	"		_		
R812   CRG022J-820AF   R813   See page 21   R814   CRD125J-182   1.8kΩ	R811	QRG022J-820AF	<b>82</b> Ω		O. M. Film		
R814         QRD125J-182         1.8kΩ         ½W         UNF Carbon           R815         See page 21         4.7kΩ         ½W         UNF Carbon           R816         QRD125J-472         4.7kΩ         ½W         UNF Carbon           R817         QRD145J-122S         1.2kΩ         ½W         O. M. Film           R818         QRG022J-331AF         330Ω         2W         O. M. Film           R819         See page 21         1kΩ         ½W         Carbon           R820         QRD141J-102S         1kΩ         ½W         Carbon           R821         QRD141J-183S         33kΩ         "         "           R822         QRD141J-472S         "         "         "           R901         QRD141J-472S         1kΩ         "         "           R902         QRD141J-222S         1kΩ         "         "           R903         QRD141J-102S         1kΩ         "         "           R904         QRD141J-123S         12kΩ         "         "           R905         QRD141J-103S         10kΩ         "         "           R906         QRD141J-103S         10kΩ         "         "           R9	R812	QRG022J-820AF	"	**	**		
R814         QRD125J-182         1.8kΩ         ½W         UNF Carbon           R815         See page 21         4.7kΩ         ½W         UNF Carbon           R816         QRD125J-472         4.7kΩ         ½W         UNF Carbon           R817         QRD145J-122S         1.2kΩ         ½W         O. M. Film           R818         QRG022J-331AF         330Ω         2W         O. M. Film           R819         See page 21         1kΩ         ½W         Carbon           R820         QRD141J-102S         1kΩ         ½W         Carbon           R821         QRD141J-183S         33kΩ         "         "           R822         QRD141J-472S         "         "         "           R901         QRD141J-472S         1kΩ         "         "           R902         QRD141J-222S         1kΩ         "         "           R903         QRD141J-102S         1kΩ         "         "           R904         QRD141J-123S         12kΩ         "         "           R905         QRD141J-103S         10kΩ         "         "           R906         QRD141J-103S         10kΩ         "         "           R9	R813	See page 21					
R815         See page 21           R816         QRD125J-472         4.7kΩ         ½W         UNF Carbon           R817         QRD145J-122S         1.2kΩ         ½W         0. M. Film           R818         QRG022J-331AF         330Ω         2W         0. M. Film           R819         See page 21         1kΩ         ½W         Carbon           R820         QRD141J-102S         1kΩ         ¼W         Carbon           R821         QRD141J-183S         33kΩ         "         "           R822         QRD141J-472S         "         "         "           R901         QRD141J-472S         "         "         "           R902         QRD141J-222S         "         "         "           R903         QRD141J-102S         1kΩ         "         "           R904         QRD141J-102S         1kΩ         "         "           R905         QRD141J-103S         12kΩ         "         "           R906         QRD141J-103S         10kΩ         "         "           R907         QRD141J-22S         2.2kΩ         "         "           R909         QRD141J-332S         3.3kΩ         "			1.8kΩ	1/2W	UNF Carbon		
R816			1.0000				
R817   QRD145J-122S   1.2kΩ    ½W			1740	1/38/	LINE Carbon		
R818         QRG022J-331AF         330Ω         2W         O. M. Film           R819         See page 21         1kΩ         ½W         Carbon           R820         QRD141J-102S         1kΩ         ½W         Carbon           R821         QRD141J-333S         33kΩ         "         "           R822         QRD141J-183S         "         "         "           R823         QRD141J-472S         "         "         "           R901         QRD141J-222S         2.2kΩ         "         "           R902         QRD141J-222S         1kΩ         "         "           R903         QRD141J-102S         "         "         "           R904         QRD141J-102S         "         "         "           R905         QRD141J-123S         12kΩ         "         "           R906         QRD141J-133S         10kΩ         "         "           R907         QRD141J-332S         3.3kΩ         "         "           R909         QRD141J-563S         56kΩ         "         "           R910         QRD141J-683S         56kΩ         "         "           R911         QRD141J-123S			1				
R819   See page 21   R820   QRD141J-102S   1kΩ   ¼W   Carbon   R821   QRD141J-472S   R822   QRD141J-472S   R823   QRD141J-472S   R901   QRD141J-222S   2.2kΩ   "			l l		O M Eller		
R820       QRD141J-102S $1k\Omega$ $3k\Omega$ $3k\Omega$ "         R821       QRD141J-333S $33k\Omega$ "       "         R822       QRD141J-183S       "       "       "         R823       QRD141J-472S       2.2kΩ       "       "         R901       QRD141J-222S       "       "       "         R902       QRD141J-222S       "       "       "         R903       QRD141J-102S       "       "       "         R904       QRD141J-102S       "       "       "         R905       QRD141J-123S       12kΩ       "       "         R906       QRD141J-103S       10kΩ       "       "         R907       QRD141J-103S       10kΩ       "       "         R908       QRD141J-222S       2.2kΩ       "       "         R910       QRD141J-663S       56kΩ       "       "         R911       QRD141J-683S       68kΩ       "       "         R913       QRD141J-123S       12kΩ       "       "         R914       QRD141J-224S       220kΩ       "       "			33082	2VV	O. IVI. FIIM		
R821       QRD141J-333S       33kΩ       "         R822       QRD141J-183S       "       "         R823       QRD141J-472S       2.2kΩ       "         R901       QRD141J-222S       2.2kΩ       "         R902       QRD141J-222S       "       "         R903       QRD141J-102S       1kΩ       "         R904       QRD141J-102S       "       "         R905       QRD141J-123S       12kΩ       "         R906       QRD141J-103S       10kΩ       "         R907       QRD141J-332S       3.3kΩ       "         R908       QRD141J-332S       3.3kΩ       "         R909       QRD141J-563S       56kΩ       "         R910       QRD141J-563S       56kΩ       "         R911       QRD141J-123S       18kΩ       "         R912       QRD141J-123S       12kΩ       "         R913       QRD141J-123S       12kΩ       "         R914       QRD141J-224S       220kΩ       "	R819						
R821   QRD141J-183S   R823   QRD141J-183S   R823   QRD141J-183S   R823   QRD141J-222S   Z.2kΩ   Z.2	R820	QRD141J-102S	1kΩ				
R823   QRD141J-472S   R901   QRD141J-222S   Z.2kΩ	R821	QRD141J-333S	33kΩ		"		
R823   QRD141J-472S   R901   QRD141J-222S   Z.2kΩ	1	QRD141J-183S					
R901       QRD141J-222S $2.2kΩ$ "         R902       QRD141J-222S       "       "         R903       QRD141J-102S $1kΩ$ "         R904       QRD141J-102S       "       "         R905       QRD141J-123S       "       "         R906       QRD141J-103S $10kΩ$ "         R907       QRD141J-103S $10kΩ$ "         R908       QRD141J-332S $3.3kΩ$ "         R909       QRD141J-22S $2.2kΩ$ "         R910       QRD141J-663S $56kΩ$ "         R911       QRD141J-683S $68kΩ$ "         R912       QRD141J-683S $68kΩ$ "         R913       QRD141J-123S $12kΩ$ "         R914       QRD141J-224S $220kΩ$ "		ORD141J-472S					
R902       QRD141J-222S       "       "       "         R903       QRD141J-102S $1k\Omega$ "       "         R904       QRD141J-102S       "       "       "         R905       QRD141J-123S       12kΩ       "       "         R906       QRD141J-103S       10kΩ       "       "         R907       QRD141J-332S       3.3kΩ       "       "         R908       QRD141J-222S       2.2kΩ       "       "         R910       QRD141J-563S       56kΩ       "       "         R911       QRD141J-183S       18kΩ       "       "         R912       QRD141J-683S       68kΩ       "       "         R913       QRD141J-123S       12kΩ       "       "         R914       QRD141J-224S       220kΩ       "       "			2240	**	11		
R903       QRD141J-102S $1kΩ$ "       "         R904       QRD141J-102S       "       "       "         R905       QRD141J-123S       12kΩ       "       "         R906       QRD141J-103S $10kΩ$ "       "         R907       QRD141J-103S $10kΩ$ "       "         R908       QRD141J-332S $3.3kΩ$ "       "         R909       QRD141J-222S $2.2kΩ$ "       "         R910       QRD141J-663S $56kΩ$ "       "         R911       QRD141J-183S $18kΩ$ "       "         R912       QRD141J-683S $68kΩ$ "       "         R913       QRD141J-123S $12kΩ$ "       "         R914       QRD141J-224S $220kΩ$ "       "			##	**			
R904       QRD141J-102S       "       "       "         R905       QRD141J-123S       12kΩ       "       "         R906       QRD141J-123S       "       "       "         R907       QRD141J-103S       10kΩ       "       "         R908       QRD141J-332S       3.3kΩ       "       "         R909       QRD141J-222S       2.2kΩ       "       "         R910       QRD141J-563S       56kΩ       "       "         R911       QRD141J-183S       18kΩ       "       "         R912       QRD141J-683S       68kΩ       "       "         R913       QRD141J-123S       12kΩ       "       "         R914       QRD141J-224S       220kΩ       "       "			110	"	"		
H904       QRD141J-102S         R905       QRD141J-123S       12kΩ       "         R906       QRD141J-103S       10kΩ       "         R907       QRD141J-103S       10kΩ       "         R908       QRD141J-332S       3.3kΩ       "         R909       QRD141J-22S       2.2kΩ       "         R910       QRD141J-663S       56kΩ       "         R911       QRD141J-183S       18kΩ       "         R912       QRD141J-683S       68kΩ       "         R913       QRD141J-123S       12kΩ       "         R914       QRD141J-224S       220kΩ       "			1 K72				
R906   QRD141J-123S   12kΩ   12kΩ	1		461.5				
R906   QRD141J-1238   10kΩ							
R907   QRD141J-1035   10k32	R906	ORD141J-123S	"		1		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	R907	QRD141J-103S	10kΩ				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1	QRD141J-332S	3.3kΩ	**	"		
R910     QRD141J-563S     56kΩ     "       R911     QRD141J-183S     18kΩ     "       R912     QRD141J-683S     68kΩ     "     "       R913     QRD141J-123S     12kΩ     "     "       R914     QRD141J-224S     220kΩ     "     "			1	***	**		
R911 QRD141J-183S 18kΩ " " R912 QRD141J-683S 68kΩ " " R913 QRD141J-123S 12kΩ " " R914 QRD141J-224S 220kΩ " "				**	m .		
R912 QRD141J-683S 68kΩ " " R913 QRD141J-123S 12kΩ " " R914 QRD141J-224S 220kΩ " "				-	117		
R912   QRD141J-683S   68kΩ				,,	"		
R914 QRD141J-123S 12832 " " "	1		-				
R914 QRD141J-2248 220K12		l l	1		ı		
R915   See page 21	1		220kΩ	••			
	R915	See page 21					
	L		· · · · · · · · · · · · · · · · · · ·				

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K	esis	STO	ır

Item No.	Part Number	Rat	ing	Description
R916	QRD141J-273S	27kΩ	¼W	Carbon
R917	QRD141J-223S	22kΩ	••	"
R918	QRD141J-104S	100kΩ	•	<i>"</i>
R919	QRD141J-104S	"	**	<i>"</i>
R920	QRD141J-104S	"	"	"
R921	QRD141J-563S	56kΩ	"	<b>"</b>
R922	QRD141J-330\$	33Ω	"	"
R923	QRD141J-472\$	4.7kΩ	**	
R931	QRD125J-221	$220\Omega$	1/2W	UNF Carbon A
R932	QRD125J-221	"	**	" <u>A</u>
R943	QRD141J-332S	3.3kΩ	1/4W	Carbon
R944	QRD141J-332S	"	***	"
R945	QRD141J-681S	680Ω	**	"
R946	QRD141J-681\$	"	"	"
VR581	QVZ5010-008	250kΩ	(B)	Slide Variable
VR582	QVZ5302-002	"	(W)	Variable

## Others

tem No.	Part Number	Rating	Description
	See page 21		3P Plug Ass'y
	QMV5005-005		5P Plug Ass'y
	E04365-003		3P Socket
	E04365-005		F. W. Socket
	E04365-004		"
	See page 21		AC Socket △
	QMS6312-015		Jack Ass'y
	See page 21		Fuse Clip
	EMB10TV-801A		Speaker Terminal
	E67764-004		Wrapping Terminal
	E67764-102		Terminal Ass'y
	E67764-103		Wrapping Terminal
	E67764-202		Wrapping Terminal
	E67764-203		Terminal Ass'y
	E65508-002		Tab
	EMG7331-001		Fuse Clip
	See page 21		Circuit Board
	E302654-001		Heat Sink
			Bracket (R)
	E302655-001		" " (L)
	E70188-001		Bracket
	E33754-001		TIE Band
	E70053-001		Screw
	SBSB3008Z	ļ	Tapping Screw
	SBSB3008Z		"
	SBSB3012Z		"
	E302648-001		Heat Sink
	AC238		INSU. Film
	E65654-001		Spacer
	E65396-001		Earth Plate
S501	See page 21		Push Switch △
RY901	ESK6D24-213		Relay
	E69826-H40B		Heat Sink
	E70306-001		"

Specified Numbers in ENH-001 for Designated Areas

Item No.	Description	U.S.A. & Canada	Europe & Australia	West Germany	Europe (with LW)	U.K. (with LW)	U.S. Military Market & Other Countries
Q725,726 D813	Transistor Diode	_	2SD636(Q,R) 1S2473	2SD636(Q,R) 1S2473	2SD636(Q,R) 1S2473	2SD636(Q,R) 1S2473	<u> </u>
C717,718 C812,813	Capacitor	l .	QFN31HK-473Z QCF31HP-223Z	QFN31HK-473Z QCF31HP-223Z		QFN31HK-473Z QCF31HP-223Z	_ QCF31HP-103Z
R001 R773,774	Resistor Thermistor	QRC128K-275E	SDT250	SDT250	SDT250	SDT250	-
R813	Resistor	ORD145J-101S	QRZ0062-101	QRZ0062-101	QRZ0062-101	QRZ0062-101	QRD145J-1018
R815,819 R915	"	QRD145J-100\$ QRG022J-471AF	QRZ0062-100 QRG026J-471AF	QRZ0062-100 QRG026J-471AF	QRZ0062-100 QRG026J-471AF		QRD145J-100S QRG022J-471AF
S501 ~ 503	Push Switch AC Socket	QST4441-E01 QMC0437-002	QST4441-E01	QST4441-E01 —	QST444.1-E02	QST4441-E02 —	QST4441-E01 QMC0437-002
	Fuse Clip 3 pin Plug Ass'y	E45524-002	EMG7331-001	EMG7331-001	EMG7331-001 QMV5005-003	EMG7331-001 QMV5005-003	_
	Circuit Board	E10842-001	E10842-001	E10842-001	E10842-001	E10842-001BS	E10842-001

## 9-(3) ENF-001 ☐ SEA Control P.C. Board Ass'y

Note: ENF-001-1 varies according to the aveas employed. See note (1)

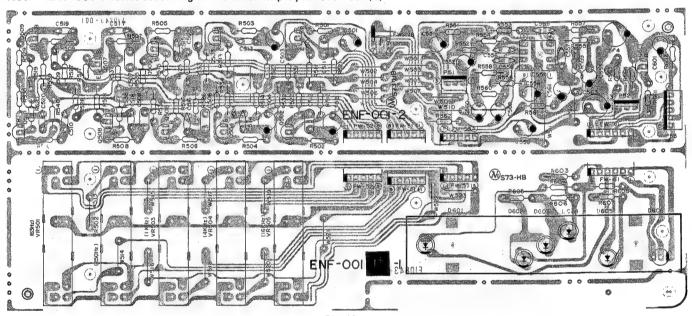
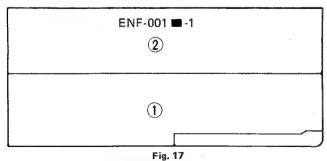


Fig. 16

## Each Individual P.C. Board Location



① ENF-001-1 SEA Volume & Indicator P.C. Board Ass'y

2 ENF-001-2 SEA Amp. P.C.Board Ass'y

## Note (1)

Designated Areas	P.C. Board Ass'y	
U.S.A., Canada, U.S. Military	ENIE 0044	
Market & Other Countries	ENF-001A	
Europe, Australia,	ENE 004D	
West Germany & U.K.	ENF-001B	

Note (2) The symbols (赤、黒、白 ... etc.) on P.C. Board surface are factory process only.

Transistors

Item No.	Part Number Rating		Des	cription	
				Maker	
Q501	2SC1775AV(E,F)		Silicon	Hitachi	
Q502	2SC1775AV(E,F)		"	"	
Q503	2SC1775AV(E,F)		"	"	
Q504	2SC1775AV(E,F)		"	. "	
Q505	2SC1775AV(E,F)		"	"	
Q506	2SC1775AV(E,F)		"	"	
Q507	2SC1775AV(E,F)		. "	"	
Q508	2SC1775AV(E,F)		"	"	
Q509	2SC1775AV(E,F)		"	. "	
Q510	2SC1775AV(E,F)		"	"	
Q601	2SC458(D)		"	"	

Integrated Circuit

Item No.	Part Number	Rating	Desc	ription
				Maker
IC551	NJM4560D-X			Dainichi

Diodes

Item No.	No. Part Number Ratin	Rating	Description		
				Maker	
D601	SLR-55VC20F		L.E.D.	Rohm	
D602	SLR-55MC20F		**	**	
D603	SLR-55MC20F			" .	
D604	SLR-55MC20F		. **	"	
D605	SLR-55DC20F		**	"	
D606	SPR-55MVW5F		"	"	

Capacitors

Item No.	Part Number	Rating		Description
C501	QET61HM-225Z	2.2µF	50V	Electro
C502	QET61HM-225Z	"	**	"
C503	QET61HM-474Z	0.47µF	**	"
C504	QET61HM-474Z		"	· "
C505	QFN31HK-124Z	0.12µF	**	Mylar
C506	QFN31HK-124Z	"	**	"
C507	QFN31HK-273Z	0.027µF	"	"
C508	QFN31HK-273Z	"	"	"
C509	QCY31HK-682Z	6800pF	"	Ceramic
C510	QCY31HK-682Z	**	"	"
C511	QFN31HK-223Z	0.022µF	"	Mylar
C512	QFN31HK-223Z	"	**	"
C513	QCY31HK-822Z	8200pF	"	Ceramic
C514	QCY31HK-822Z	"	**	**
C515	QCY31hk-332Z	3300pF	**	"
C516	QCY31HK-332Z	"	**	"
C517	QCY31HK-122Z	1200pF	"	"
C518	QCY31HK-122Z	"	**	"
C519	QCS31HJ-561Z	560pF	## T	**
C520	QCS31HJ-561Z	"	"	**
C551	QET61HM-475Z	4.7µF	"	Electro
C552	QET61HM-475Z	**	**	**
C553	QET61AM-476Z	47µF	10V	**
C554	QET61AM-476Z	**	"	**
C555	QCS31HJ-101Z	100pF	50V	Ceramic
C556	QCS31HJ-101Z	"	"	11
C557	QCS31HJ-330Z	33pF	**	"
C558	QCS31HJ-330Z	n	"	**
C559	QET61AM-476Z	47μF	10V	Electro
C560	QET61AM-476Z	"	**	"
C561	QET61HM-475Z	4.7µF	50V	**
C562	QET61HM-475Z	"	**	"
C563	QET61EM-476Z	47μF	25V	"
C564	QET61EM-476Z	"	**	"
C601	QET61HM-475Z	4.7μF	50V	"

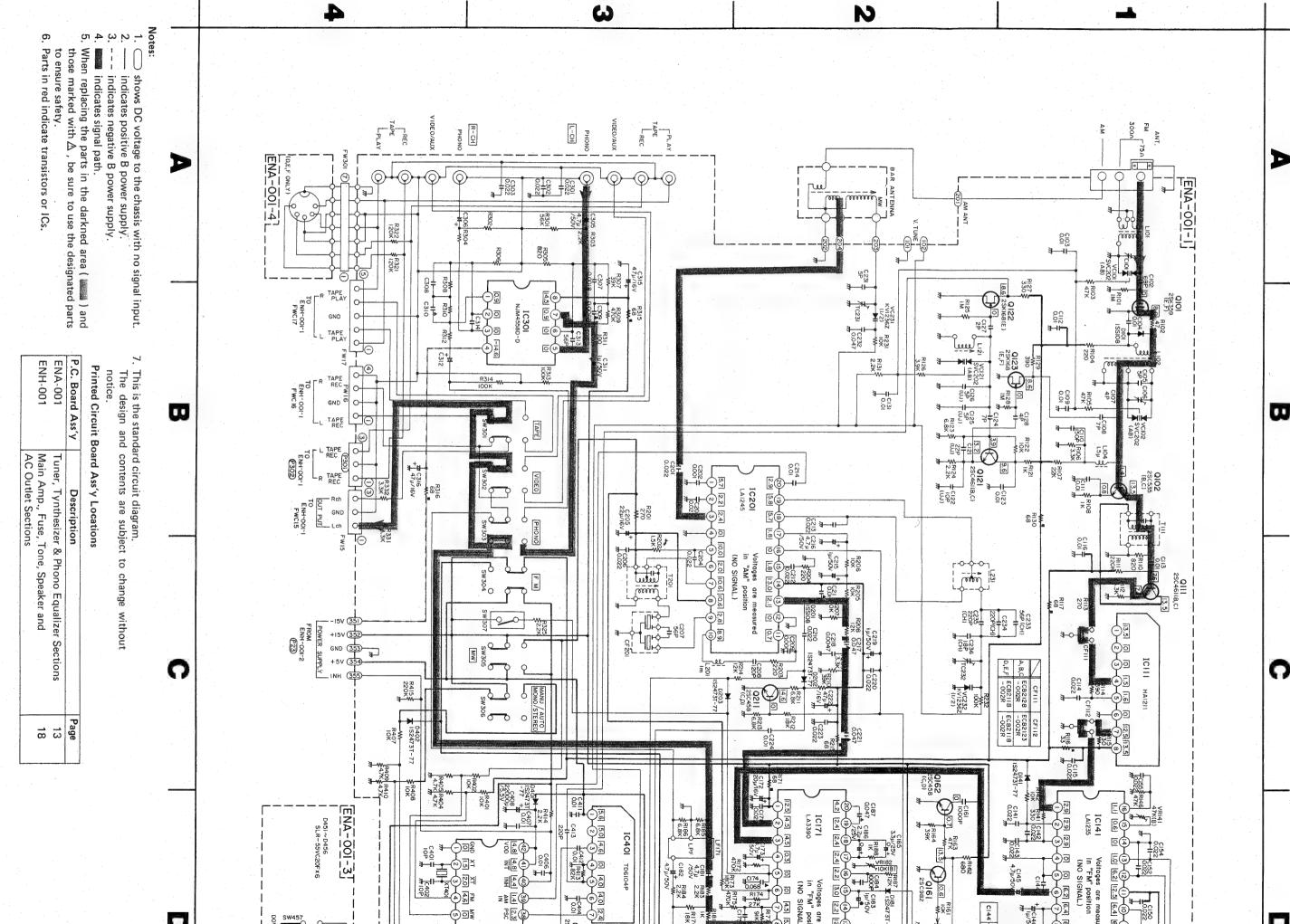
Resistors

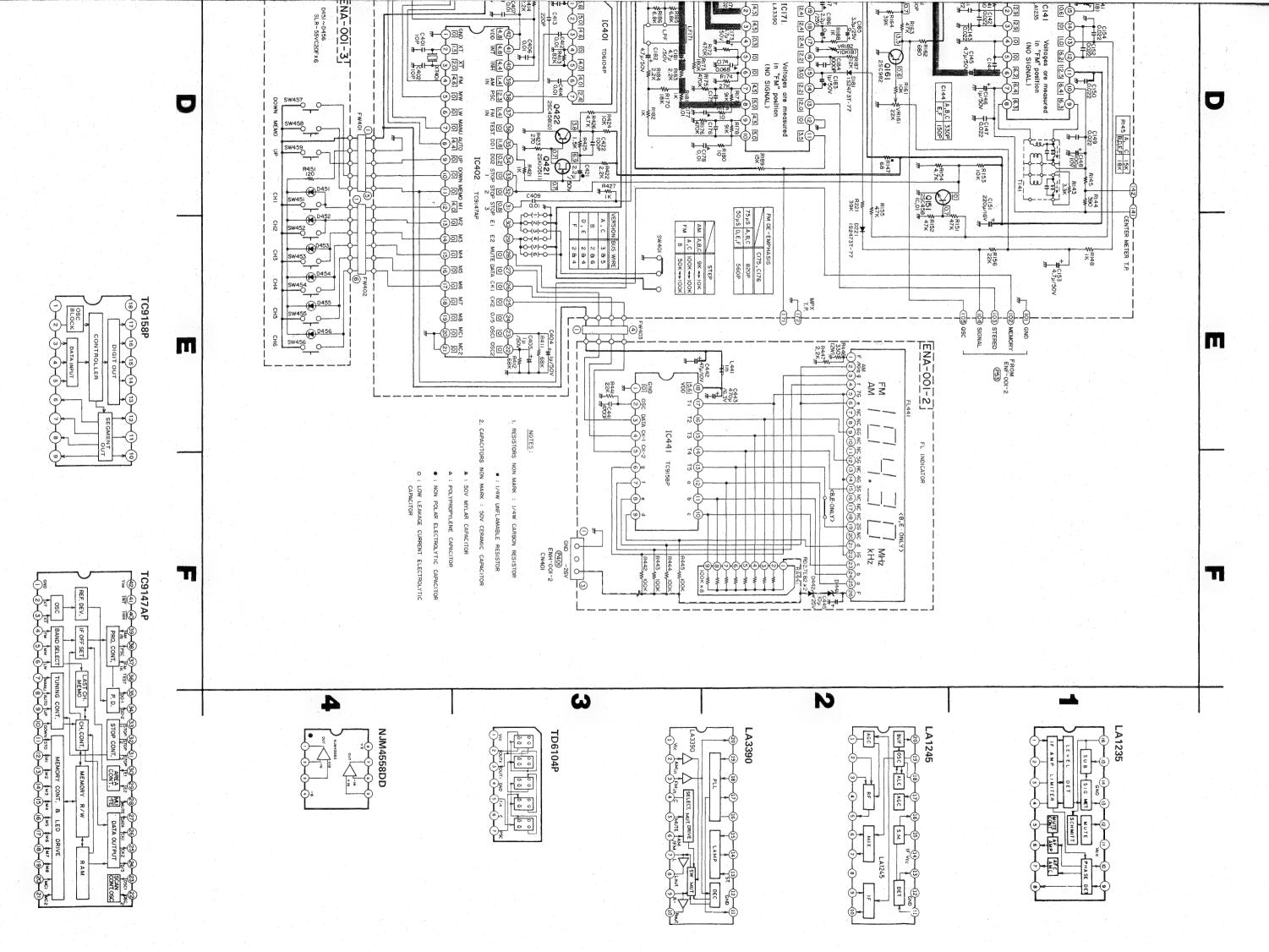
Resistors				Description
Item No.	Part Number QRD141J-122S	Ratin 1.2kΩ	¼W	Description Carbon
R501 R502	QRD141J-122S	1.2K32	74 V V	Carbon
R503	QRD141J-122S	"	"	"
R504	QRD141J-122S	"	**	"
R505	QRD141J-122S	"	"	"
R506	QRD141J-122S	"	"	"
R507	QRD141J-122S	"	"	"
R508	QRD141J-122S	"	"	"
R509	QRD141J-122S	"	"	" .
R510	QRD141J-122S	"	"	"
R511	QRD141J-391S	390Ω	"	"
R512	ORD141J-391S	"	"	",
R513	QRD141J-391S	"	"	",
R514	QRD141J-391S	"	"	,,
R515	QRD141J-391S	"		ļ.,,
R516	QRD141J-391\$	"	"	"
R517	QRD141J-391S	",	"	"
R518	QRD141J-391S		,,	
R519	QRD141J-391S	"	"	
R520	QRD141J-391S		"	
R521	QRD141J-124S	120kΩ	"	"
R522	QRD141J-124S	1	**	"
R523	QRD141J-913S	91kΩ	"	"
R524	QRD141J-913S		"	
R525	QRD141J-513\$	51kΩ		1,
R526	QRD141J-513S		"	"
R527	QRD141J-393S	39kΩ	"	"
R528	QRD141J-393S		"	
R529	QRD141J-223S	22kΩ	,,	
R530	QRD141J-223S		- "	
R531	QRD141J-472S	4.7kΩ	"	
R532	QRD141J-472S	"	**	"
R533	QRD141J-472S	"	"	,,
R534	QRD141J-472S		**	"
R535	QRD141J-472S	- "		· ,,
R536	QRD141J-472S QRD141J-472S		**	**
R537 R538	QRD141J-472S	"	**	"
R539	QRD141J-472S	"	**	**
R540	QRD141J-472	"	**	**
R551	QRD141J-184S	180kΩ	"	
R552	QRD141J-184S	."	**	28
R553	QRD141J-102S	1kΩ	**	"
R554	QRD141J-102S	"	ii	"
R555	QRD141J-472S	4.7kΩ	**	**
R556	QRD141J-472S	**	**	"
R557	QRD141J-273S	27kΩ		**
R558	QRD141J-273S	"	"	"
R559	QRD141J-562S	5.6kΩ	**	"
R560	QRD141J-562S	"	**	" .
R561	QRD141J-562S	//	"	"
R562	QRD141J-562S	"	**	
R563	QRD145J-100S	10Ω	**	UNF. Carbon A
R564	QRD145J-100S	"	**	" (for A) △
R564	QRZ0062-100	"		Fusible (for B) 🛆
R601	QRD141J-220S	22Ω	1/4W	Carbon
R602	QRD141J-223S	22kΩ	**	"
R603	QRD141J-561S		**	",
R604	ORD141J-821S	820Ω	"	
R605	QRD141J-821S	"		\ ''.
R606	QRD141J-331S	3300		,,
R607	QRD141J-181S	180Ω	"	""
R608	ORD141J-681S	680Ω		1 "
VR501	QVZ5206-002	200kΩ(	G)	Slide Volume
VR502		"		
VR503		"		",
VR504		"		"
VR505	QVZ5206-002			1

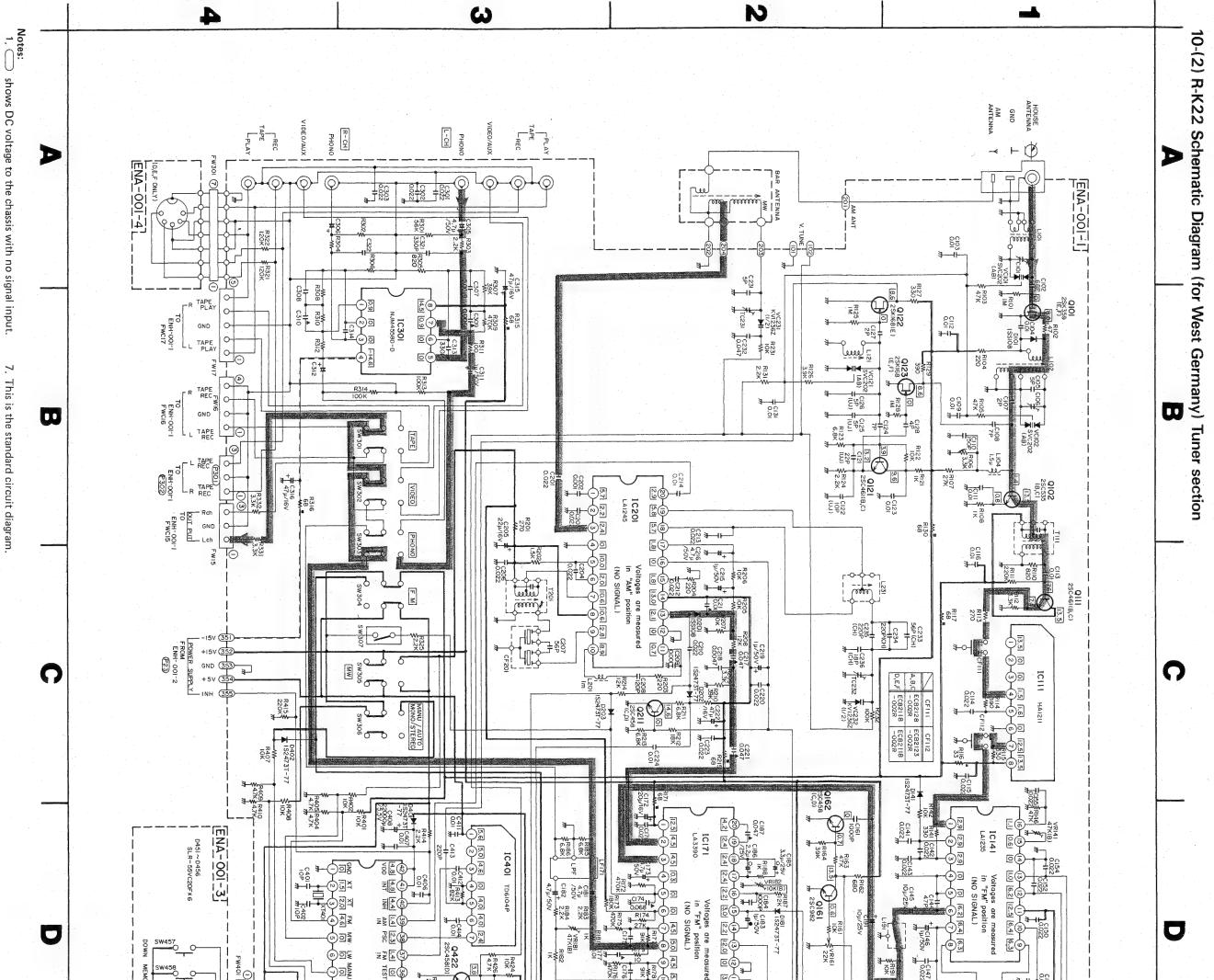
Others

Item No.	Part Number	Rating	Description
	QMV5005-003		3P Plug Ass'y
	QMV5005-005		5P Plug Ass'y
	E67764-004		Wrapping Terminal
	E10843-001		Circuit Board
	E302650-001		LED Holder
	E300796-001		Fastener

10-(1) R-K22 Schematic Diagram Tuner section (For Power Amp. Schematic Diagram, refer to page 26)







SIE(유)<sup>그</sup>

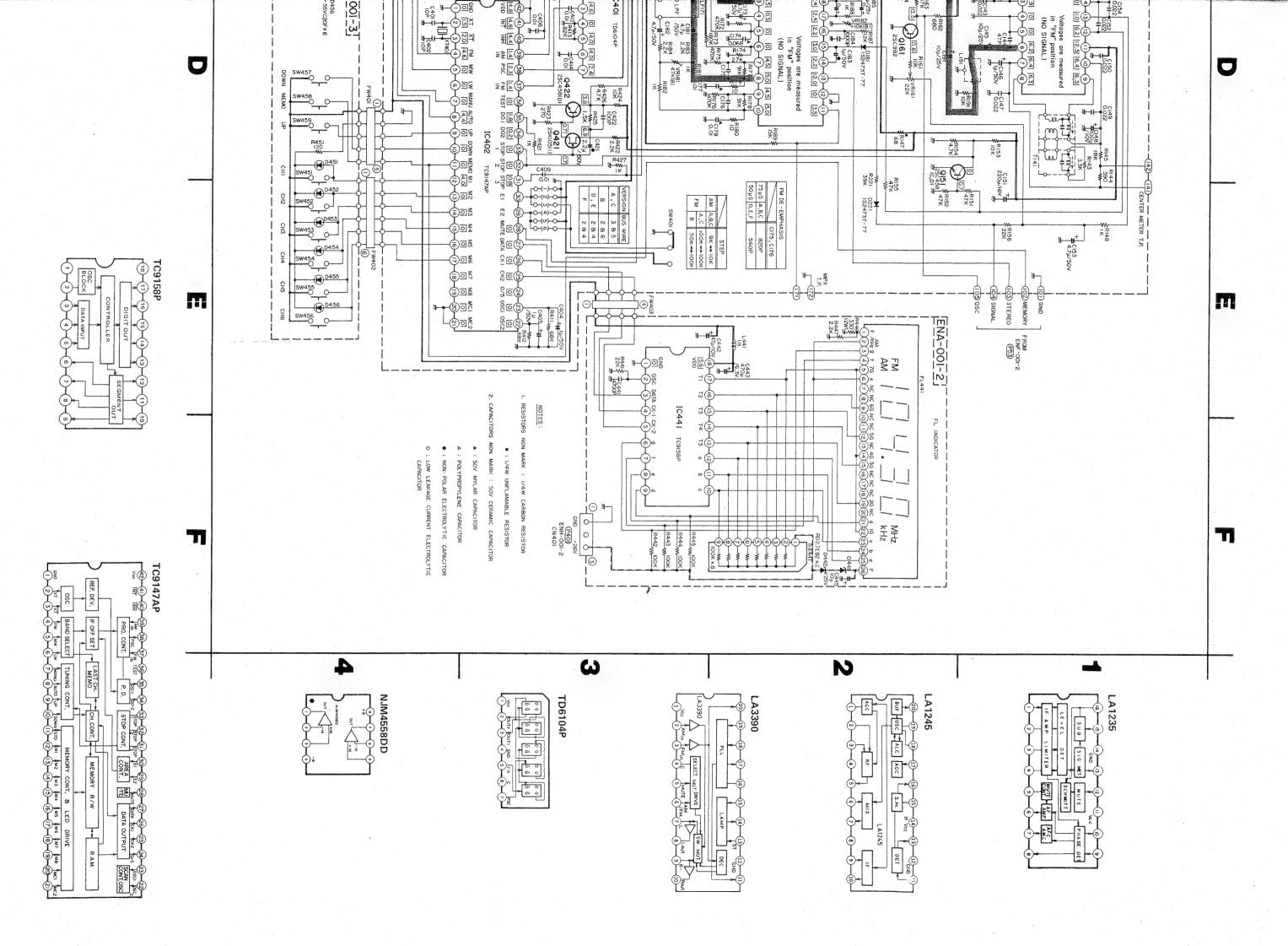
- signal input.

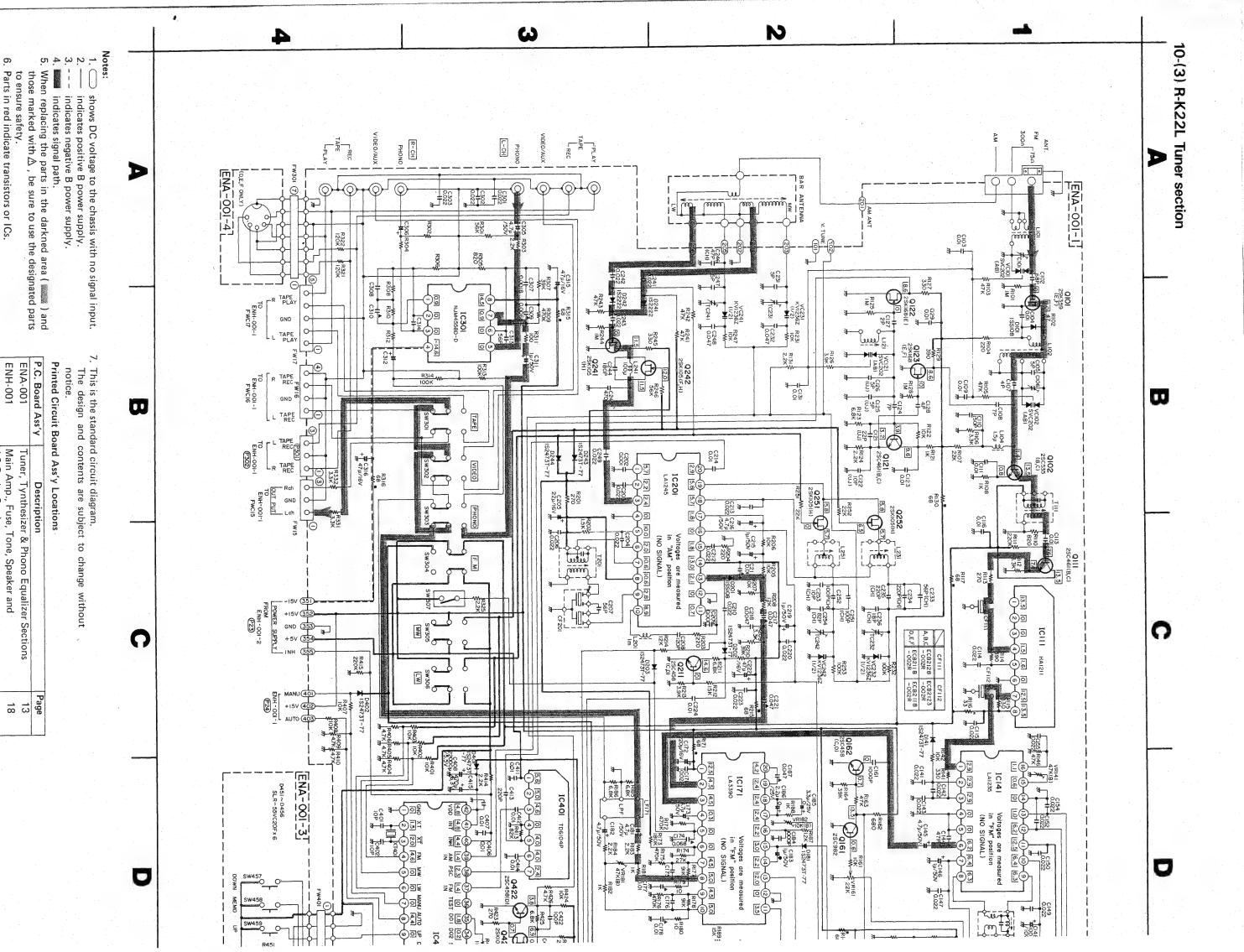
- shows DC voltage to the chassis with no sig
   indicates positive B power supply.
   indicates negative B power supply.
   indicates signal path.
   When replacing the parts in the darkned area (I those marked with △, be sure to use the design ned area ( ) and the designated parts

- This is the standard circuit diagram The design and contents are subj notice. are subject Ö change without

# Printed Circuit Board Ass'y Locations

P.C. Board Ass'y	Description	Page
ENA-001	Tuner, Tynthesizer & Phono Equalizer Sections	13
ENH-001	Main Amp., Fuse, Tone, Speaker and	18
	AC Outlet Sections	





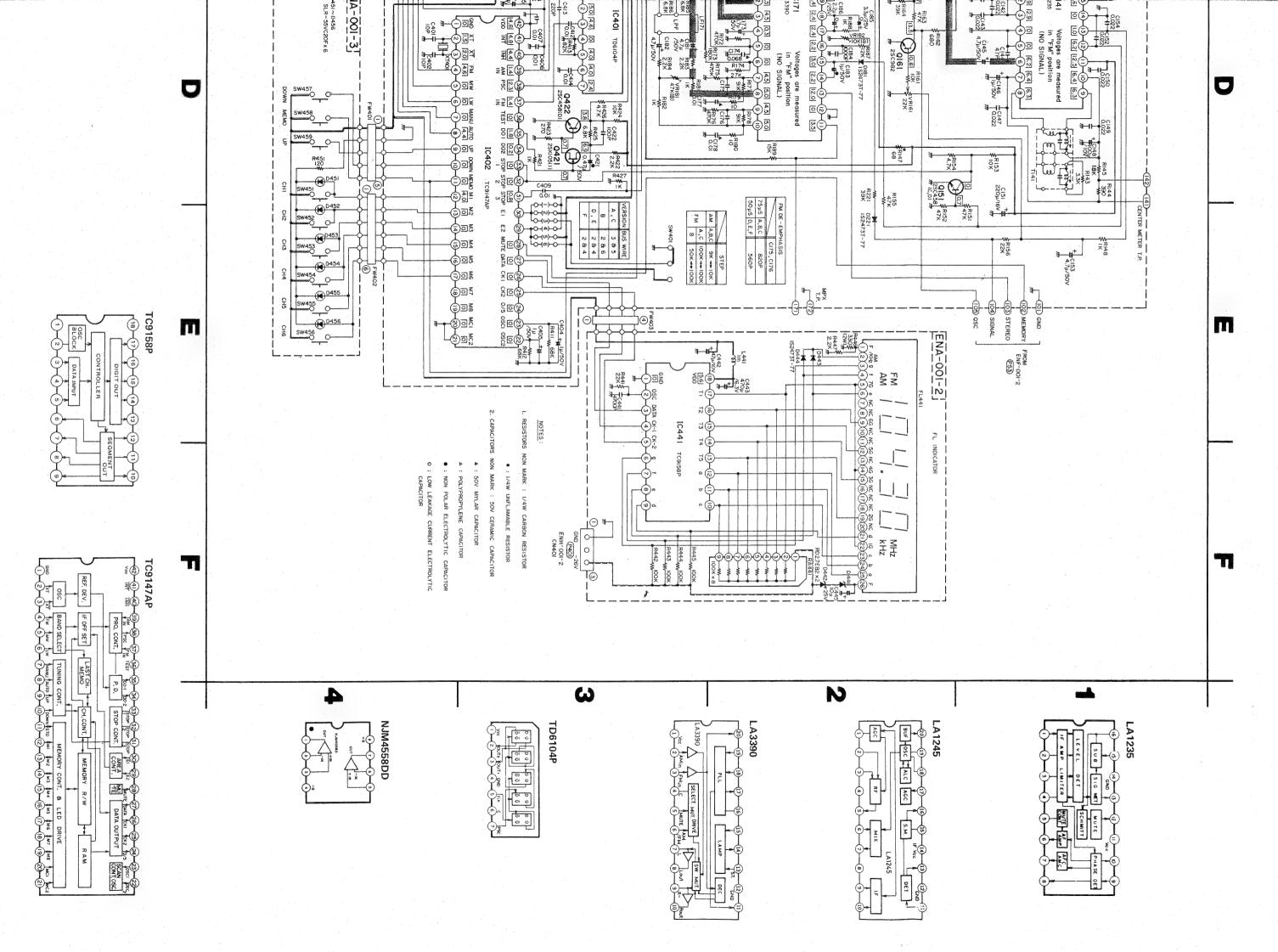
Main Amp., Fuse, Tone, Speaker AC Outlet Sections

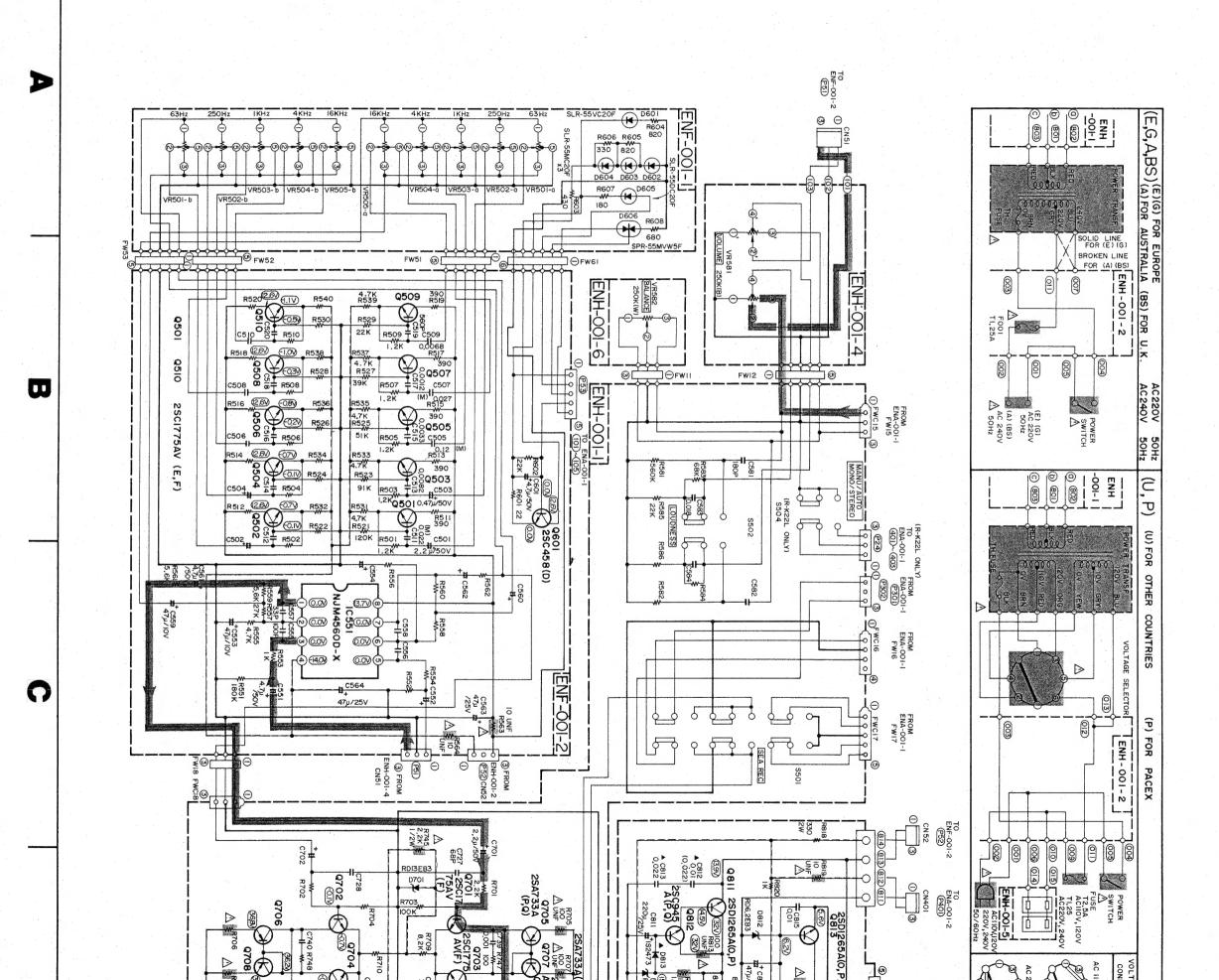
and

Tuner, Tynthesizer & Phono Equalizer Sections

to ensure satety.

Parts in red indicate transistors or ICs.





ω

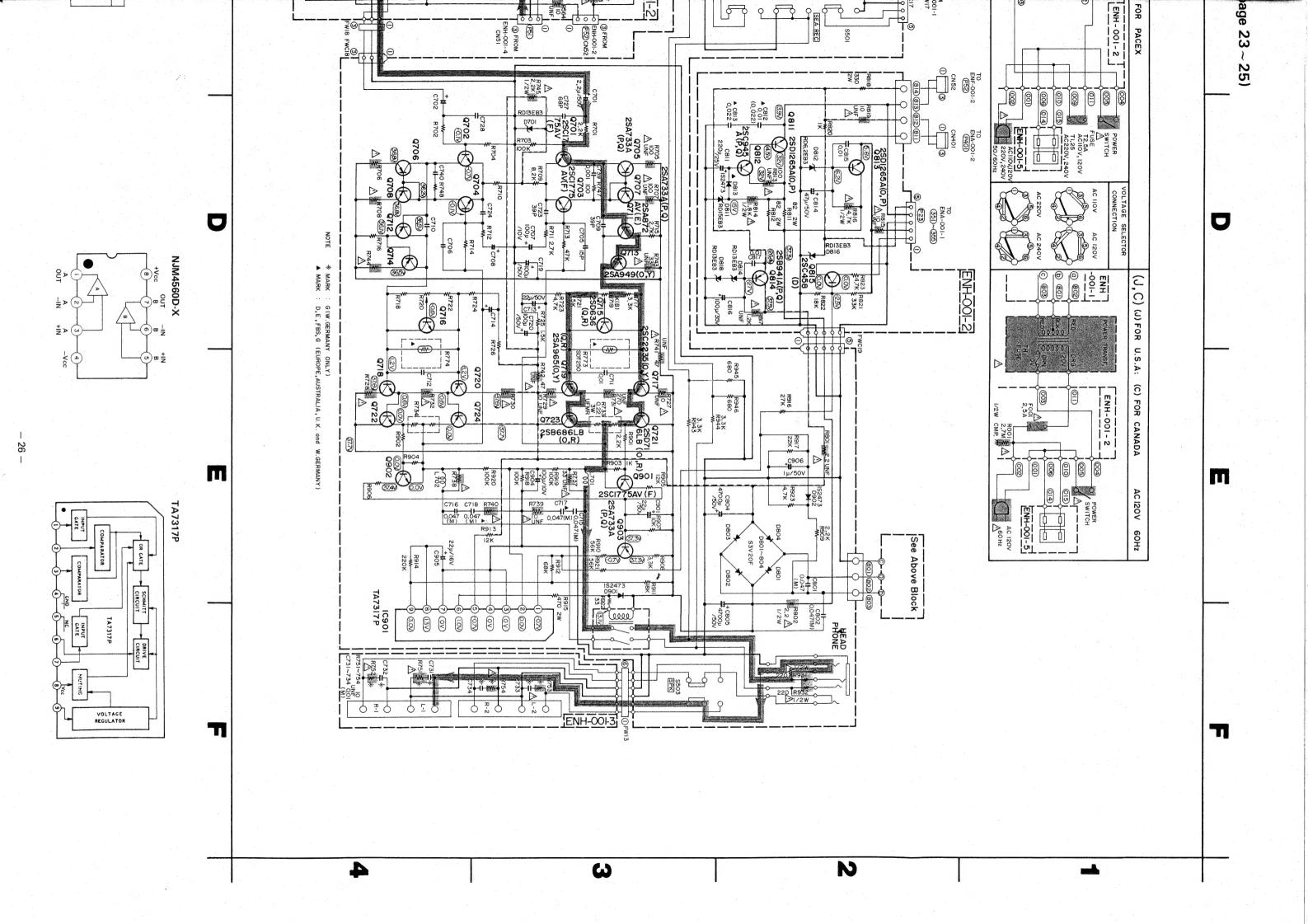
N

- Notes: 1. () 2. () 3. ---4. () 5. W
- shows DC voltage to the chassis with no signal input.
   indicates positive B power supply.
   indicates negative B power supply.
   indicates signal path.
   When replacing the parts in the darkned area ( ) and those marked with △, be sure to use the designated not those marked with △, be sure to use the designated not those marked with △.

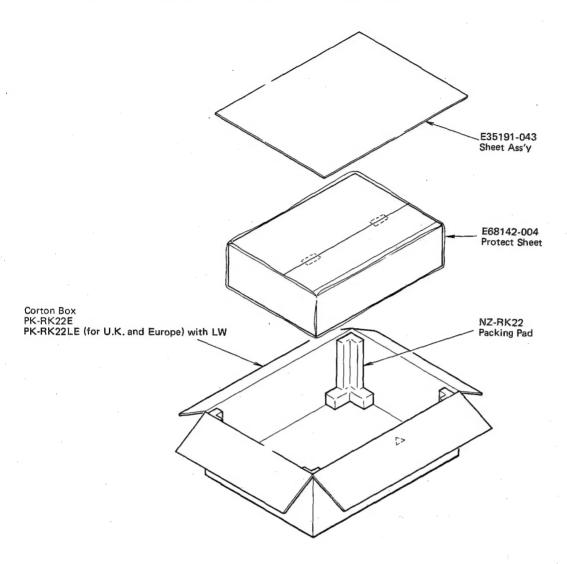
- This is the standard circuit diagram
  The design and contents are sub subject to

# Printed Circuit Board Ass'y Locations

P.C. Board Ass'y	Description	Page
ENA-001	Tuner, Tynthesizer & Phono Equalizer Sections	13
ENH-001	Main Amp., Fuse, Tone, Speaker and	18
	AC Outlet Sections	



# 11. Packing Materials and Part Numbers



# 12. Accessories List

Description	USA (& Canada)	U.K.	Europe (& W. Germany)	Australia	U.S. Military Market (& Other Countries)
Instruction Book	E30580-1118A	E30580-1118ABS	E30580-1118A	E30580-1118A	E30580-1118A
Warranty Card	BT20048 (BT20025F)	BT20013C	(BT20057)	BT20029C	BT20048
Service Information Card	BT20046A		_	_	BT20046A
Safety Instruction	BT20044D ( _ )	_	<b>-</b>	<b>–</b>	
Siemens Plug	-	-	-		E04056
Envelope (for Inst.)	E66416-003	E66416-003	E66416-003	E66416-003	E66416-003
B. in Antenna	E03614-004 ( ")	E03614-004	E03614-004 (E67007-001)	E03614-004	E03614-004

# 13. Parts List with Specified Numbers for Designated Areas

Item No.	Description	U.S.A. & (Canada)	U.S. Military Market & Other Countries	Europe & Australia	west Germany	Europe (with LW)	U.K. (with LW)
1	Bar Antenna	EQB3101-101	EQB3101-101	EQB3101-101	EQB3101-101	EQB3204-101	EQB3204-101
2	Fuse Holder △	_	QMG0301-003	_	_	_	
3	Fuse (Primany) 🛆	QMF61UQ-2R5 (2.5A-125U)	QMF51A2-1R25L (T1.25A) or QMF51A2-2R5L (2.5A)	QMF51A2-1R25L (T1.25A)	QMF51A2-1R25L (T1.25A)	QMF51A2-1R25 (T1.25A)	QMF51A2-IR25LBS (T1.25A)
4	Power Cord △	QMP1200-200 (QMP1900-200)	QMP7600-200	(E) QMP3900-200 (A) QMP2560-244	QMP3900-200	QMP3900-200E	QMP9017-008BS
5	Cord Stopper △	QHS3876-162	QHS3876-162	QHS3876-162	QHS3876-162	QHS3876-162	QHS3876-162BS
6	Rear Panel	E24385-001 (E24385-005)	E24385-002	E24385-003	E24385-004	E24385-003	E24385-003
7	AC Outlet △	QMC0437-002	QMC0437-002	_	_	_	-
8	Voltage Selector ▲	_	QSR0085-001U	-	<b>-</b>		_
.9	DIN Socket	_	_	E03623-003	E03623-003	E03623-003	E03623-003
10	AM Channel Space SW	QSS1201-039	QSS1201-039		. –		. <del>-</del>
11	Antenna Terminal	E03572-016	E03572-016	E03572-016	EMB91YV-201A	E03572-016	E03572-016
12	Top Cover	E24397-001 (E24147-003)	E24397-001	E24397-001	E24397-001	E24397-001	E24397-001
13	Primary Cover A	-		E302271-001	E302271-001	E302271-001	E302271-001
14	Power Transformer 🛆	ETP1070-05JA (ETP1070-05CA)	ETP1070-05FA	ETP1070-05EA	ETP1070-05EA	ETP1070-05EA	ETP1070-05EABS
15	Front Panel Ass'y	EFP-RK22E	EFP-RK22E	EFP-RK22E	EFP-RK22E	EFP-RK22LE	EFP-RK22LE
16	Push Switch 🛆	QSP1110-308	QSP1110-308	QSP1110-305	QSP1110-305	QSP1110-305	QSP1110-305BS
17	Push Switch	QST1651-E04	QST1651-E04	QST1651-E04	QST1651-E04	QST1651-E03	QST1651-E03
18	Push Switch	QST4441-E01	QST4441-E01	QST4441-E01	QST4441-E01	QST4441-E02	QST4441-E02
.19	Knob Escutcheon	E68584-001 (Speaker) E68636-001 (for Loudness)	E68636-001	E68584-001 (for Speaker) E68636-001 (for Loudness)	E68584-001 (for Speaker) E68636-001 (for Loudness)	E302656-001	E302656-001
20	Spacer	E69589-002 (U.S.A. only)	-	_	_	******	-

△ Safety Parts



VICTOR COMPANY OF JAPAN, LIMITED, TOKYO, JAPAN

